ORDER NO. VSD9812M224A

# Service Manual

Panasonic Mini DY

**Digital Cassette Video Recorder** 

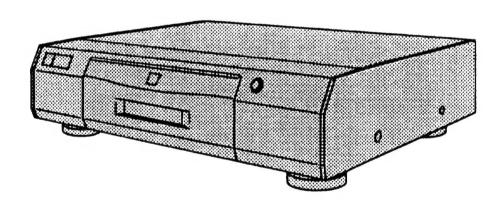
AG-DV2000P

### Volume. 1

Sec. 1 Operating Instructions

Sec. 2 Disassembly Procedures & Mechanical Adjustment Procedures

Sec.3 Block Diagrams,
Schematic Diagrams &
Circuit Board Diagrams



Please refer to the Service Manual Model AG-DV2000P Volume 2 (Order No. VSD9812M224B) for Service Information, Electrical Adjustment Procedures and Exploded Views / Parts List.

Weight and dimensions shown are approximate. Specifications are subject to change without notice

**Panasonic** 

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### **△ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

### AG-DV2000P

**Power Source:** 

120 V AC 60 Hz

**Power Consumption:** 

27 watts

Power Consumption When in Standby Mode:

Approx. 7 watts

Video Recording System:

**Audio Recording System:** 

PCM Digital Recording; 16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)

Video Heads:

2 heads

Tape Speed:

SP: 18.812 mm/sec.

Tape Format:

LP; 12.555 mm/sec.

Record/Playback Time:

DV/ Mini DV tape

SP; 120 min. LP; 180 min. with DV120 SP; 60 min. LP; 90 min. with DVM60

FF/REW Time:

approx. 70 sec. with DV120

2 rotary heads, Digital Component

approx. 50 sec. with DVM60

**VIDEO** 

**Television System:** 

EIA; Standard (525 lines, 60 fields) NTSC color signal

**Modulation System:** 

Digital Compornent recording

Input Level:

VIDEO IN:

1.0 Vp-p, 1.0 Vp-p,

75 ohm, terminated 75 ohm, terminated

**Output Level:** 

VIDEO OUT

S-VIDEO IN:

1.0 Vp-p,

75 ohm, terminated

S-VIDEO OUT

1.0 Vp-p,

75 ohm, terminated

AUDIO

Input Level:

AUDIO IN

309 mV,

more than 47 kohm

**Output Level:** 

MIC(M3): **AUDIO OUT**  0.33 mV. 309 mV, 600 ohm

**HEAD PHONES:** 

1-30 mV.

less than 1 kohm 8 ohm

Audio Track:

16 bit (48 kHz/2ch);

1 track, 2 channels

12 bit (32 kHz/4ch);

2 tracks, 4 channels

Digital Interface:

DV Terminal (i.LINK, 4-pin)

Video Horizontal Resolution:

Color: more than 500 lines 20 Hz-20 kHz (16 bit )

**Audio Frequency Response:** 

20 Hz-14.5 kHz (12 bit )

**Operating Temperature:** 

5°C-40°C

**Operating Humidity:** 

35%-80%

Weight:

14.6 lbs. (6.8 kg)

Dimensions:

179/16"(W)×47/6"(H)×137/6"(D) [445 (W)×123 (H)×351.5 (D) mm]

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

### INTRODUCTION

This Service Manual Vol. 1 contains technical information such as Operating Instructions, Disassembly procedures, Maintenance & Mechanical Adjustment Procedures and Block Diagrams / Schematic Diagrams / C.B.A. Layout and which service personnel to understand and service the Panasonic Digital Video Cassette Recorder model AG-DV2000P. For other technical information such as Service Information, Electrical Adjustment Procedures and Exploded Views / Parts Lists, please refer to the Service Manual AG-DV2000P Vol. 2. (Order No. VSD9812M224B).

**Panasonic** 

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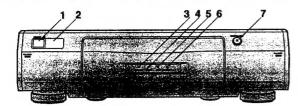
OPERATING INSTRUCTIONS	SECTION1
DISASSEMBLY PROCEDURES &	
MECHANICAL ADJUSTMENT PROCEDURES · · · · · · · · · · · · · · · · · · ·	SECTION2
BLOCK,SCHEMATIC,CIRCUIT BOARD DIAGRAMS	<b>SECTION3</b>

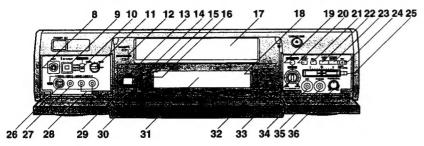


# SECTION 1

# **OPERATING INSTRUCTIONS**

This section gives a detailed explanation of the function of each button, switch and connection socket.





### FRONT

### 1 POWER 心/I

Press to switch the VCR from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

### 2 Infra-red Remote Control Receiver Window

### 3 STANDBY Indicator

This indicator is lit when main lead is connected and the power is off.

### 4 POWER Indicator

This indicator is lit when the power is on.

### 5 REC Indicator

This indicator is lit when recording is in progress.

### 6 CASSETTE IN Indicator

This indicator is lit when a cassette is inserted.

### 7 OPEN/CLOSE

Press to open the front panel or to open/close the cassette tray.

By connecting a movie camera or VCR with an EDIT socket to this socket via an Edit cable, various kinds of editing functions can be performed more quickly and efficiently between two VCRs or between a VCR and a movie camera.

### 9 DV IN/OUT ( )

To connect the DV cable to digital video equipment with IEEE 1394-1995 compatible DV terminal. "i.LINK" is the name of the connector in accordance with

the International Standard IEEE1394-1995.

"k" is the logo marked on products conforming with the

"i.LINK" specifications. For further details on the DV terminal, refer to the Glossary of Terms on page 66.

### 10 EDIT MODE

PLAYER:

When this VCR is used as the playback VCR during editing operations.

RECORDER: When this VCR is used as the recording VCR during editing operations.

· Normally set at this position. PASSIVE:

When operating this VCR using another VCR or an editing controller.

· The picture quality best suited for editing is selected.

### 11 EDIT CONTROL

To select a connected component when another component is to be connected for editing, etc.

### 12 DV CASSETTE/MINI CASSETTE Indicators

This indicator corresponds to the size of the cassette inserted is lit.

### 13 JOG/SHUTTLE Indicator

While this display is lit, the unit is set to the Jog/Shuttle

- · Check that the display is lit before proceeding with a iog or shuttle operation.
- The display is automatically turned off if no operation is performed.

#### 14 VIDEO INSERT Indicator

This indicator is lit when the video insert editing is performed.

### 15 AUDIO DUB Indicator

This indicator is lit when the Audio Dubbing or Audio Mixing is performed.

### 16 AUDIO INSERT Indicator

This indicator is lit when the audio insert editing is performed.

### 17 Cassette Tray

### 18 Indicators for AUDIO MONITOR

The audio track selected by STEREO SELECT lights. (This applies only to a tape recorded in the 12bit audio

### 19 MIXING EDIT

For Mixing Editing.

### 20 INPUT SELECT

To select the A1, A2 or DV IN external recording source.

To select the desired tape speed for recording.

### 22 AUDIO OUT

To select the desired sound mode.

When this button is pressed, the audio output mode changes as follows.

The Left(L) and Right(R) Indicators shown which sound mode is selected in the following way.

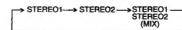
Stereo: Both the L and R Indicators appear.

The L Indicator appears.

The R Indicator appears. Right:

### 23 STEREO SELECT

To select the audio track (STEREO1 audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:



- The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.
- . When INPUT SELECT is set to DV IN and a 12bit audio mode input signal is being received, the audio track can be selected by STEREO SELECT at any

### **24 REC**

To start recording.

#### 25 AUDIO REC LEVEL

To adjust the audio recording level to peak at +4 dB on the recording level indicator.

. When INPUT SELECT is set to DV IN the audio recording level cannot be adjusted.

### 26 S-VIDEO IN (AV2)

To connect the S-Video cable to a movie camera or to another VCR that has an S-Video output socket,

. If an S-Video cable is connected, other video input (AV2) is automatically switched off.

#### 27 VIDEO IN (AV2)

To connect the video cable to a movie camera or to another VCR.

### 28 AUDIO IN (AV2)

To connect the audio cable to a movie camera or to another VCR.

### 29 EDITING CONTROLLER Socket

When using the editing controller separate from the main unit, remove the modular cap and then connect the editing controller cable.

### 30 DV IN/OUT Indicators

DV IN: This indicator is lit when INPUT SELECT is

set to "DV IN".

DV OUT: This indicator is lit when a playback operation is performed using this VCR or when INPUT

SELECT is set to other than "DV IN".

### 31 Display

### 32 Indicators for AUDIO DATA

Displays the audio data that is to be recorded, or the audio data on a tape that has already been recorded. The audio recording mode can be set in the SET UP

12bit-STEREO1: To play back a tape that is recorded in 12bit audio mode.

12bit-STEREO2: To play back a STEREO2 audio tape

recorded in the 12bit audio mode.

To play back a tape that is recorded in 16bit:

16bit audio mode.

## Infra-red Remote Controller

### 33 AUDIO MIX Level

During the Audio Mixing function:

To adjust the volume of the original audio (STEREO1).

During playback of a tape recorded in the 12bit audio mode:

To adjust the mix balance between the STEREO1 and STEREO2 audio.

### 34 MIC

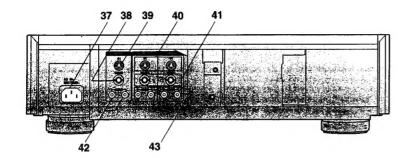
To connect to a microphone for recording. Once connected, this socket has priority.

### 35 PHONES

To connect stereo headphones.

### 36 PHONES LEVEL

For adjusting the volume level of connected stereo headphones.



### REAR

### 37 AC IN~

To connect to the main power supply.

### 38 VIDEO IN (INPUT1)

To connect the video cable (BNC) to a movie camera or to another VCR.

### 39 S-VIDEO IN (INPUT1)

To connect the S-Video cable to a movie camera or to another VCR that has an S-Video output socket.

 If an S-Video cable is connected, other video input (INPUT1) is automatically switched off.

### 40 S-VIDEO OUT (OUTPUT1/2)

To connect the S-Video cable to a monitor or another VCR that has an S-Video input socket.

### 41 VIDEO OUT (OUTPUT1/2)

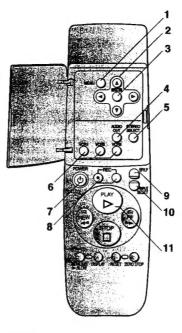
To connect the video cable (BNC) to a monitor or to another VCR.

### 42 AUDIO IN (INPUT1)

To connect the audio cable to a movie camera or to another VCR.

### 43 AUDIO OUT (OUTPUT1/2)

To connect the audio cable to a stereo audio system.



### 1 MENU

To make the On Screen Display Main menu appear on the monitor screen.

### 2 A V 4 P

To make selections from the On Screen Display.

### 3 OK

To confirm the selection, or to store.

### 4 AUDIO OUT

To select the desired sound mode. When this button is pressed, the audio output mode changes as follows.

Stereo ---> Left ----> Right -----

The Left(L) and Right(R) Indicators shown which sound mode is selected in the following way.

Stereo: Both the L and R Indicators appear.

Left: The L Indicator appears.
Right: The R Indicator appears.

### 5 STEREO SELECT

To select the audio track (STEREO1 audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:

 The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.

 When INPUT SELECT is set to DV IN and a 12bit audio mode input signal is being received, the audio track can be selected by STEREO SELECT at any time.

### 6 VCR1/2/3

While holding down **POWER (b)**, press one of these buttons to select the remote control mode.

/CR1: Set this position on both the VCR and

remote controller for normal use with one

VCR

VCR2: Set this position when using two

Panasonic VCRs.

/CR3: Set this position when using three

Panasonic VCRs.

 When the VCR's remote control mode has been switched, select the same remote control mode on the editing controller as well.

### 7 POWER ()

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

### 8 REC

To start recording.

Press both buttons at the same time.

### 9 SP/LP

To select the desired tape speed for recording.

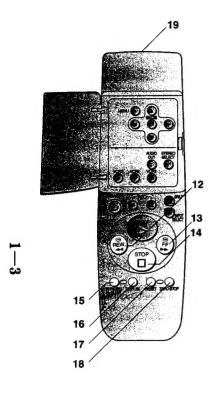
### 10 INPUT SELECT

To select the A1, A2 or DV IN external recording source.

### 11 ▷ (PLAY)

To start playback. ">" is lit during playback.

# **Editing Controller**



### 12 **◄**◀ (REW)

In the stop mode:

To rewind the tape.

In the playback mode: To search backward for a scene.

In the rewind mode: To view the video.

"<><" is lit during rewind.

### 13 ▶▶ (FF)

In the stop mode: In the playback mode:

To fast forward the tape. To search forward for a scene.

In the fast forward mode: To view the video.

"DD" is lit during fast forward.

### 14 (STOP)

To stop playback or recording

### 15 PAUSE/SLOW (III/I»)

During playback:

• When pressed once: Still picture. "III" is lit.

· When pressed for 2 seconds or more:

Slow playback. "[] >" is lit.

During recording: To pause recording.

To change the VCR display indication as follows:

r-→Clock>	Time>	Remaining → Counter -	۳,
	Code	Tape Time	

• The time code frame values are not displayed on the main unit's VCR display.

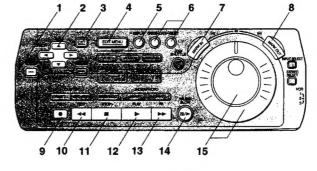
To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.
- It is not possible to reset the Time code to "0h00m00s00f" using RESET.

### 18 ZERO STOP

For the zero stop function.

### 19 Infra-red Transmitter



### 1 SET UP

To make the SET UP screen appear on the monitor screen. When the SET UP screen is displayed, use this button to return to the previous screen.

### 2 ▲ ▼ ◀ ► (CURSOR)

To make selections from the SET UP or EDIT MENU screen. (When the SET UP or EDIT MENU screen is displayed.)

### 3 EXIT

To exit the SET UP or EDIT MENU screen.

To make the EDIT MENU screen appear on the monitor screen, and to return to the previous screen. This button is also used to stop editing functions using the EDIT MENU screen.

### 5 DISPLAY

To change the VCR display indication as follows:

>Clock>	Time>	Remaining	- Cou
	Code	Tape Time	

· The time code frame values are not displayed on the main unit's VCR display.

### 6 DATE-OFF/ON, DATE-SELECT

When pictures are recorded using this VCR or a Panasonic Digital Video Camera, the date and time of the recording are automatically recorded onto the tape's sub code track.

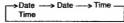
This button is used to select the information to be displayed on the On Screen Display.

### DATE-OFF/ON:

To make the Date/Time indication appear on the monitor screen

### DATE-SELECT:

To change the indication to be displayed on the monitor screen as follows:



### 7 MARK IN

To set edit start points for Program Editing.

### 8 MARK OUT

To set edit end points for Program Editing.

### 9 REC

To start recording.

### 10 **◄◄** (REW)

To rewind the tape. In the stop mode: In the playback mode: To search backward for a scene.

To view the video. In the rewind mode:

### "<>" is lit during rewind.

### 11 M (STOP)

To stop playback or recording.

### 12 ► (PLAY)

To start playback. ">" is lit during playback.

### 13 ▶**▶** (FF)

To fast forward the tape. In the stop mode: To search forward for a scene. In the playback mode: In the fast forward mode: To view the video.

### "DD" is lit during fast forward.

### 14 PAUSE/SLOW (III/I») During playback:

. When pressed once: Still picture. "DD" is lit.

· When pressed for 2 seconds or more:

Slow playback, "□>" is lit. During recording: To pause recording.

### 15 Jog Dial/Shuttle Ring

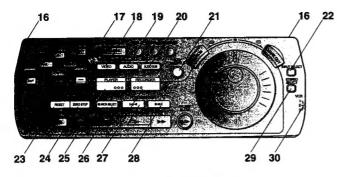
### Jog Dial (inner dial):

Operate after pressing JOG/SHUTTLE to switch to the Joa/shuttle mode.

To locate any desired field with utmost precision. Shuttle Ring (outer ring):

Operate after pressing JOG/SHUTTLE to switch to the Jog/shuttle mode.

To adjust playback speed backward or forward.



### 16 Infra-red Transmitter

#### 17 OK

To start Manual editing and to store the selection on the SET UP or EDIT MENU screen.

### **18 VIDEO INSERT**

For the Video Insert function and the AV Insert function.

#### 19 AUDIO INSERT

For the Audio Insert function and the AV Insert function.

### 20 AUDIO DUB

For the Audio Dubbing function or the Audio Mixing function.

### 21 JOG/SHUTTLE

To switch to the Jog/Shuttle mode. When the button is pressed, it lights and the VCR enters the Jog/Shuttle mode.

In the stop mode: Still picture (Jog/Shuttle mode). During playback: Still picture (Jog/Shuttle mode).

### 22 INPUT SELECT

To select the A1, A2 or DV IN external recording source.

### 23 RESET

To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00".
   when a video cassette is inserted.
- It is not possible to reset the Time code to "0h00m00s00f" using RESET.

### 24 ZERO STOP

For the zero stop function.

### 25 PLAYER

To operate the playback unit.

### 26 SEARCH SELECT

To search for a recorded program using the index/ photoshot index search.

### 27 RECORDER

To operate the recording VCR.

#### 28 INDEX/PHOTO

For the index/photoshot index search function.

### 29 STEREO SELECT

To select the audio track (STEREO1audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:

- The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode
- When INPUT SELECT is set to DV IN, the audio track can be selected by STEREO SELECT at any time: it does not have to be during playback.

### 30 VCR1/2/3

To select the remote control mode. The selected mode appears on the remote controller display.

VCR1: Set this position on both the VCR and remote controller for normal use with one

VCR.

VCR2: Set this position when using two

Panasonic VCRs.

VCR3: Set this position when using three

Panasonic VCRs.

### Note:

While in the editing mode the VCR's Time code or tape counter display cannot be changed.

# Remote Controller Setup

### Installing the Batteries

1 To remove the cover, slide it in the direction of the arrow while pressing down.



Load the batteries with their polarity (⊕ and ⊕) aligned correctly.



3 Slide the cover back on.

### **Power Source for the Remote Controller**

The remote controller is powered by 2 AA, UM3 or R6 size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

### **Precautions for Battery Replacement**

- Load the new batteries with their polarity (⊕ and ⊝) aligned correctly.
- Do not apply heat to the batteries, or an internal shortcircuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool, dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.
- . Do not use rechargeable batteries.

# Editing Controller Set Up

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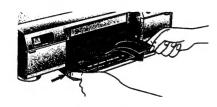
# Operating the Editing Controller

The Editing controller can be operated in any of the following 3 ways:

- It can be operated while remaining attached to the main unit.
- Its batteries can be loaded, and it can be separated from the main unit and operated as the remote controller.
- It can be separated from the main unit, connected using the accessory editing controller cable and operated as the remote controller.

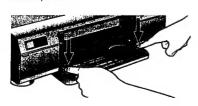
### How to separate the editing controller

While pressing the buttons at the left and right of the main unit's front panel, remove the editing controller with both hands.



### How to attach the editing controller

Push down on the editing controller until the areas around the left and right buttons on the unit's front panel click into position.



### When connecting the editing controller to the video unit using the editing controller cable

1 Remove the cover over the controller socket on the rear panel of the editing controller, and insert the plug at one end of the editing controller cable into this socket until it clicks into position.



2 Remove the modular cap over the unit's controller socket, and insert the plug at the other end of the editing controller cable into this socket until it clicks into position.



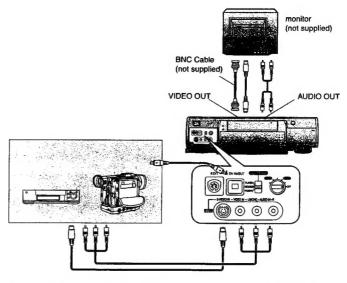
### When using the editing controller as a remote controller

As a remote controller, the editing controller can be operated at a distance up to about 3 m in front and up to an angle of up to about 30 degrees to the left or right of centre. (This range changes in accordance with the ambient brightness.)

### Note:

When the VCR's remote control mode has been switched, switch the remote control mode on the editing controller as well.





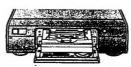
- Use AV cables to connect the input sockets on this unit with the output sockets on the video equipment.
- . Press INPUT SELECT on this unit so that A1, A2 or DV IN is selected.
- When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).
- If the video equipment is connected to this unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority.
   If the video equipment does not have an S-VIDEO socket do not connect the S-VIDEO cable to this unit.

# Inserting the Cassette

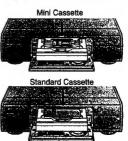
- 1 Press OPEN/CLOSE.
- The front panel opens.



- 2 Press OPEN/CLOSE again.
- . The cassette tray is extended.

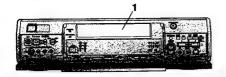


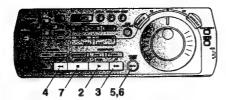
3 Align the cassette with the cassette guide and place it on the tray while ensuring that the side of the cassette with the tape exposed is facing up and the label side is turned toward you.



- 4 Press OPEN/CLOSE.
  - . The cassette tray is retracted inside the video unit.

# Playback





# 2 3 5,6 7

### Operations Display Symbols

Insert a recorded cassette tape (page 13).



2 Press ▷ (PLAY) to start playback.



Tap ►► (FF) to search forward.
• Press ▷ (PLAY) to change back

to normal playback.



4 Tap ◄◄ (REW) to search backward.

 Press > (PLAY) to change back to normal playback.



Press PAUSE/SLOW to view a still picture.

Press ▷ (PLAY) or PAUSE/SLOW to continue normal playback.



Keep PAUSE/SLOW pressed for 2 seconds or more to view a slow motion picture.

Press ▷ (PLAY) to continue normal playback.

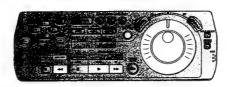


Press (STOP) to stop the picture.

### Note:

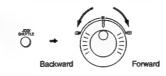
If you keep ▶▶ (FF) or ◄◄ (REW) pressed in step 3 or 4, search playback is activated while the button is pressed, and operation returns to normal playback when the button is released.

### Other Playback Functions



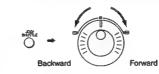
### To Change the Playback Speed

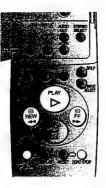
- 1 Press JOG/SHUTTLE on the editing controller.
  - The button on the editing controller is lit.
- 2 Rotate Shuttle Ring.



### To Locate the Desired Picture Exactly

- 1 Press JOG/SHUTTLE on the editing controller.
- The button on the editing controller is lit.
- 2 Turn Jog dial.





### To View the Video During Fast Forward or Rewind

Keep►► (FF) pressed during fast forward. Keep ◄◄(REW) pressed during rewind.





### To Return to a Specified Scene

- After playback, press ZERO STOP in the stop mode.
- The tape will be rewound or fast forwarded to 0:00.00 approximately.
- During Time code display, this function will not work.

### **Automatic Playback**

When a cassette with the opened record prevention tab is inserted, the VCR starts playback automatically.

### **VCR-off Playback**

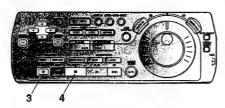
When the VCR is off, an inserted cassette can be played back by pressing ▷(PLAY).

### **Automatic Rewinding**

When the tape reaches the end during recording or playback, it will automatically be rewound to the beginning.

### Note:

Cue, review or slow playback will be automatically canceled after 10 minutes, and still playback after 5 minutes.



# 

### Operations Display Symbols

Insert a video cassette with the closed record prevention tab (page 13).

● If it has already been inserted, press POWER 🕁 (POWER ₺/I) to turn the VCR on.



Press INPUT SELECT on this unit so that A1, A2 or DV IN.



3 Press REC to start recording.



4 Press □ (STOP) to stop recording.

To Select the Desired Tape Speed Press SP/LP before recording.



To Pause Recording

Press PAUSE/SLOW during recording.

Press again to continue recording.



### To Select the Desired Audio Mode

Perform the procedure below using the editing controller.

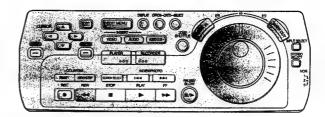
- 1 Press SET UP.
- 2 Using ▲ ▼, select Audio Mode and press OK.
- 3 Using ◀▶, select 12bit or 16bit, then press OK.

For details, see Initial Settings for Editing on page 30.

### Note:

A long-Mini DV cassette (SP/80 min., LP/120 min.) that was recorded by this VCR cannot be played back or recorded by a DVCPRO or DVCPRO 50 format VCR.

### Search Functions



### Index Search System

It is easy to find the beginning of each recording because a special index signal is recorded at the start of each recorded segment on the tape.

### For example:

Searching for the 2nd recorded segment in the forward direction.

 Press SEARCH SELECT so that "S - -" appears on the VCR display.

(This operation is performed while the VCR is in the stop mode or normal playback mode.)



2 Press INDEX/PHOTO ►► twice.• After finding the specific

After finding the specific recorded segment, playback starts automatically.

### THE D.

**Display Symbols** 

### To stop the operation at any time Press (STOP).

- For the reverse direction, press iNDEX/PHOTO I◄
- Up to 20 index signals can be searched for in either direction.
- When the opposite INDEX/PHOTO is pressed, the number shall be decreased until 1 is reached.
- The figure on the display is reduced by 1 each time an index signal is located.
- The INDEX search function can only work correctly if the index signals are spaced at least 5 minutes apart.
- Repeat the procedure if the index signal for the specified number is not found.

### Recording Index Signals

Index signals are recorded in the following cases.

- When a recording is started by pressing REC.
- When REC on the remote controller or the editing controller is pressed during recording.

### Photoshot Index Search System

Photo shot index signals are automatically recorded when 

Panasonic Digital Video Camera is used for Photo shot

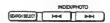
Mode. Photo shot images are searched using these signals,
and when such an image is located, the image is played
back as a still picture.

### For example:

Searching for the 2nd photo shot image in the forward direction.

1 Press SEARCH SELECT so that "PHOTO 

□ --"
appears on the VCR display.



2 Press INDEX/PHOTO ▶► twice.

 After finding the specific image, playback starts automatically.

# Display Symbols

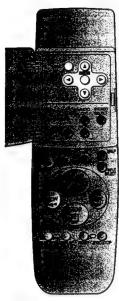
### To stop the operation at any time Press (STOP).

- For the reverse direction, press INDEX/PHOTO I◄
- Any of up to 20 images ahead on the tape can be designated.
- When the opposite INDEX/PHOTO is pressed, the number shall be decreased until 1 is reached.
- It may not be possible to search for a particular image properly if photo shot images have been recorded continuously.
- At every press of the corresponding button, the tape is fast-forwarded or rewound to the next still picture recorded in the Photoshot Mode.

After reaching the next still picture, the still picture is played back continually together with the sound (only for approx. 4 seconds).

### **Preparations**

- · Confirm that the monitor is on and the VCR viewing channel is selected.
- . Turn on the VCR and monitor.



### **Operations**

Press MENU, and then select CLOCK ADJUST.



Set Time and Date. Press ◀ lo return to the previous item.



Press OK to confirm.



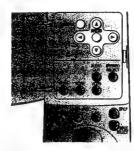
Press MENU to exit the On Screen Display.

# Settings Using On Screen Display

The VCR indications shown on the monitor screen are known as the On Screen Display (OSD). This VCR allows many settings to be made at the OSD.

### **Preparations**

- Confirm that the monitor is on and the VCR viewing channel is selected.
- Turn on the VCR and monitor.



### **OSD Mode**

1 Press MENU, and then select OPTION SETUP1.



2 Select OSD MODE.





3 Select AUTO, ON or OFF.



AUTO: The On Screen Display will appear on the monitor screen for a few seconds when

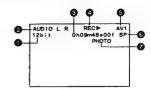
you operate the VCR. ON: The On Screen Display will always appear

on the monitor screen when you perform

The On Screen Display will not appear.

4 Press MENU twice to exit the On Screen Display.

To use the On Screen Display:



- Audio Data indicator
- Audio Output Mode indicator The Left (L) and Right (R) Indicators show which sound mode is selected with AUDIO OUT (see page 5 or 7).

Stereo: Both the AUDIO L and R Indicators

The AUDIO L Indicator appears. The AUDIO R Indicator appears.

Present time/Time code/Remaining tape time/ Tape counter/Index/Photoshot Index Search

Present date and time	JUN 11 19:22
Time code	0h09m46s00f
Remaining tape time	REMAIN 1:16
Tape counter	-1:35.47
Index/Photoshot index Search	S 02

	Tape running display	
	Stop	
	Playback/Reverse Playback	PLAY►/PLAY◀
_	Still Playback	STILLES
Ī	Fast Forward/Rewind	FF▶►/REW◀◀
	Cue/Review	CUE►►/REV◀◀
	Slow/Reverse Slow Playback	SLOW
_	Recording/Recording Pause	REC►/RECII
	Video Insert/Insert Pause	VID INS►/VID INSI
	Audio Insert/Insert Pause	AUD INS►/AUD INSI
	AV Insert/Insert Pause	A/V INS►/ A/V INSI
	Audio Dubbing/Dubbing Pause	A.DUB►/A.DUBII

- External input indicator
- Tape speed indicator
- Index/Photoshot Index Search Indicator

- . When the item "OSD MODE" is set to OFF, the On Screen Display will not appear.
- When "COLOR MODE" is set to OFF, the On Screen Display will not appear.
- On Screen Display is not displayed when the SET UP or EDIT MENU screen is displayed.

### **Power Save Mode**

1 Press MENU, and then select OPTION SETUP1



2 Select POWER SAVE MODE.



3 Select OFF, 2H or 6H.



OFF: This setting does not conserve power when the VCR is off.

The VCR turns off automatically if no operation is performed for approximately two hours.

The VCR turns off automatically if no operation is performed for approximately six hours.

4 Press MENU twice to exit the On Screen Display.

### **Wide Mode**

1 Press MENU, and then select OPTION SETUP1.



2 Select WIDE MODE.



3 Select OFF or S1.



OFF: When the S-Video input socket on the monitor that is connected is an S-Video socket.

When the S-Video input socket on the monitor that is connected is an S1-Video socket. (If a wide mode video signal is sent to the monitor, the monitor screen size will automatically switch to wide mode.)

4 Press MENU twice to exit the On Screen Display.

### To Set the Remote mode

1 Press MENU, and then select OPTION SETUP1.



2 Select REMOTE MODE.



3 Select VCR1, VCR2 or VCR3.



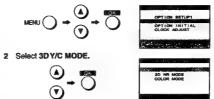
This allows the remote controller to be set for operating VCR1, VCR2 or VCR3.

· When changing the remote control mode, press VCR1.VCR2 or VCR3 while holding down POWERO to change the remote control mode of the remote controller. If this is not done, it will not be possible to operate the VCR using the remote controller.

4 Press MENU twice to exit the On Screen Display.

### 3DY/C Mode

1 Press MENU, and then select OPTION SETUP2.



3 Select OFF or ON.



OFF: To reduce ghosting that occurs when playing back or recording a fast-moving video.

ON: To record with high quality.

4 Press MENU twice to exit the On Screen Display.

### 3D NR Mode

1 Press MENU, and then select OPTION SETUP2.



2 Select 3D NR MODE.



3 Select OFF, LEVEL1 or LEVEL2.



OFF: To use this VCR as the playback unit

during editing.

LEVEL1: To get better picture quality during

playback.

LEVEL2: When there is a lot of picture noise on the

screen.

4 Press MENU twice to exit the On Screen Display.

### To Set the Color Mode

1 Press MENU, and then select OPTION SETUP2.



2 Select COLOR MODE.



3 Select OFF or ON.



OFF: When performing recording and playback in black-and-white.

When performing recording and playback in color.

4 Press MENU twice to exit the On Screen Display.

### **Initial Setting**

If you want to return the VCR to the factory-preset condition, follow the procedure below.

1 Press MENU, and then select OPTION INITIAL.



●The message "INITIAL COMPLETED." appears at the bottom of the screen.

2 Press MENU to exit the On Screen Display.

Using this VCR, 4 types of **One-Touch-Edit**, 3 types of **Manual Editing** and 3 types of **Program Editing** can be selected.

In Program Editing, after setting the edit start/end point, editing can be performed automatically. Edit programs can be set up to 10 scenes for each editing function (40 scenes for Assemble editing).

### One-Touch-Edit

- Assemble Editing (page 36)
- Insert Editing (Video, Audio, AV) (page 38)
- Audio Dubbing (page 38)
- Audio Mixing (page 40)

### **Manual Editing**

- Copying (page 42)
- Insert Editing (Video, Audio, AV) (page 44)
- Audio Dubbing (page 46)

### Program Editing

- Assemble Editing (page 48)
- Insert Editing (Video, Audio, AV) (page 52)
- Audio Dubbing (page 56)

### Copying

Allows the re-recording (copying) of the picture and sound from one tape onto another tape.



Performing the Copying operation on a tape that was recorded in 12bit audio mode.

### Video Insert

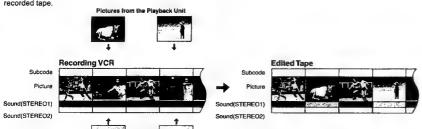
Allows the partial replacement of the picture on a recorded tape. Sound is left in its original state.

### Audio Insert

Allows the partial replacement of sound on a recorded tape. Picture is left in its original state.

### **AV Insert**

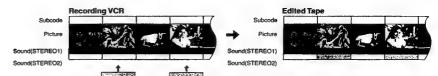
Allows the partial replacement of the picture and sound on a recorded tape.



Performing the AV Insert editing operation on a tape that was recorded in 12bit audio mode.

### **Audio Dubbing**

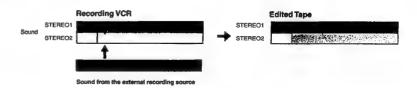
Allows the addition of the new sound on the STEREO2 track of a recorded tape. The original sound is left on the STEREO1 track.



Performing the Audio Dubbing operation on a tape that was recorded in 12bit audio mode.

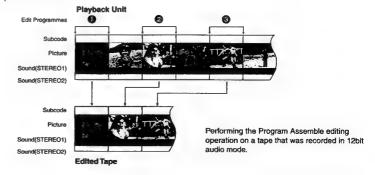
### **Audio Mixing**

Allows the mixing of the the original sound on the STEREO1 track with the new sound from the external recording source and recording the mixed sound on the STEREO2 track of a recorded tape. The original sound is left on the STEREO1 track.



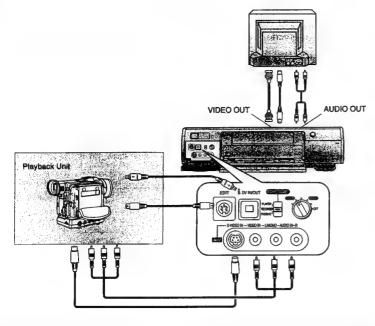
### **Assemble Editing**

Allows the required scenes (picture and sound) to be picked up from a recorded tape and recorded in any desired order onto another tape.



# Connecting with a Digital Video Camera

Example for connecting Panasonic Digital Video Camera as the playback unit, when controlling the playback unit through this



### Notes:

- · Before connecting any cables, first make sure that the power for both units is off.
- · Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the VCR.
- If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to this
- Use of an AC adaptor as the power source for the Digital Video Camera is recommended. Doing so avoids a situation where the camera shuts down due to low battery
- . It is recommended that the DV cable be disconnected for editing with INPUT SELECT set to A1 and A2. If INPUT SELECT is set to A1 and A2 with the connections shown in the figure left unchanged, the monitor picture may be disturbed or noise may occur. (This has no effect on the actual editing operations.)
- · When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 66.

- Read the operating instructions of the Digital Video Camera.
- . Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.
- . When using a Panasonic Digital Video Camera as the playback unit, the following editing functions can be used by connecting the camera to this unit with a DV cable:

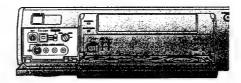
Video Insert

Audio Insert

Assemble

In this case, simply set INPUT SELECT to DV IN, and set EDIT CONTROL to DV.

- (This function may not operate properly with some models.)
- · Use Time codes for Program Editing when the playback unit is connected to this unit via a DV cable.
- · When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).





### Playback Unit (Digital Video Camera)

- Turn the power on.
- Make the Time code appear on the LCD monitor or the viewfinder.
- Prepare the tape for playback.

### **Recording Unit** (this unit)

- Turn the power on.
- Set EDIT MODE to RECORDER.



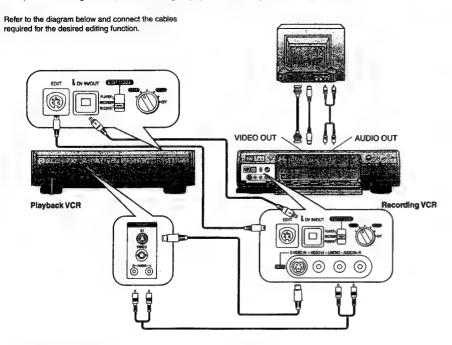
Set EDIT CONTROL to



- Press INPUT SELECT so that DV IN is selected.
  - · When performing Audio Dubbing or AV Insert, select A1 or A2.

## Connecting Two Digital Video Cassette **Recorders (Using two AG-DV2000)**

Example for connecting this unit, when controlling the playback VCR through the recording VCR.



### Notes:

- · Before connecting any cables, first make sure that the power for both VCRs is off.
- . Insert a recorded cassette into the playback VCR, and a cassette with the closed record prevention tab into the VCR.
- · When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 66.
- · Use Time codes for program editing when the playback VCR is connected to this unit via only a DV cable.
- . It is recommended that the DV cable be disconnected for editing with INPUT SELECT set to A1 and A2. If INPUT SELECT is set to A1 and A2 with the connections shown in the figure left unchanged, the monitor picture may be disturbed or noise may occur. (This has no effect on the actual editing operations.)
- . Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.

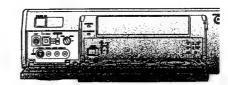
- · When the connections and setting are made as shown
- . The ▷(PLAY), ►►(FF), REC and the other such buttons on the playback VCR or the remote controller cannot be used to control the playback VCR directly. In order to permit direct control, set EDIT CONTROL on the playback VCR to OFF.
- · The following editing functions can be used by connecting the playback VCR with a DV cable:

Copying Video Insert

**Audio Insert** Assemble

In this case, simply set INPUT SELECT to DV IN, and set EDIT CONTROL to DV.

 When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).





### Playback VCR

- Turn the power on.
- Set EDIT MODE to PASSIVE.



Set EDIT CONTROL to EDIT.



### Recording VCR

- Turn the power on.
  - Set the EDIT MODE to RECORDER.



Set EDIT CONTROL to



Press INPUT SELECT so that DV IN is selected.

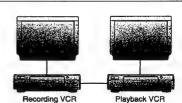
> · When performing Audio Dubbing or AV Insert, select A1 or A2.

### Controlling the Recording VCR through the Playback VCR

Follow the procedure described below:

- · Connect the edit cable to the EDIT socket on both the playback VCR and the recording VCR.
- · Use AV cables to connect the input sockets on the recording VCR with the output sockets on the
- · Connect two monitors, one to each of the VCRs, so that the screens from both VCRs can both be seen. . Set EDIT CONTROL on both the playback VCR and
- the recording VCR to EDIT. • Press INPUT SELECT on the playback VCR and
- select a position to which a cable is not connected.
- Set EDIT MODE on both VCRs as follows:

Playback VCR : PLAYER Recording VCR : PASSIVE

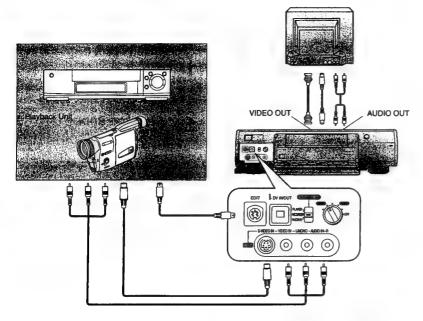


- When this connection is made, the recording VCR cannot be controlled using the DV cable.
- · Although noise may appear on the screen, depending on the connections, the noise has no effect on the actual editing operations.
- · Audio Insert and AV Insert are not possible in this configuration.
- · When performing editing with this connection, the editing accuracy may be worse than when controlled from the recording VCR.

## Connecting an S-VHS (VHS) Video **Equipment with an Edit Socket**

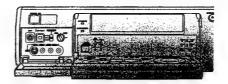
Example for connecting an S-VHS (VHS) Video Equipment with an Edit socket as the playback unit, when controlling the playback unit through the recording VCR (this unit).

Refer to the diagram below and connect the cables required for the desired editing function.



### Notes:

- · Before connecting any cables, first make sure that the power for both units is off.
- · Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the VCR.
- If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to this
- · Read the operating instructions of the playback unit.
- . Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to guit these screens before changing these settings.
- · When using this VCR as the recording VCR, the On Screen Display (date/time, Time Code) may scroll vertically when still playback or slow playback are performed by the playback VCR.
- · When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).



### Playback Unit (S-VHS (VHS) Video Equipment with an Edit socket)

Turn the power on.

Set the unit so that it is ready to be

 Read the operating instructions of the playback unit and make the necessary settings.



### Recording VCR (this unit)

Turn the power on.

Set EDIT MODE to RECORDER.



Set EDIT CONTROL to



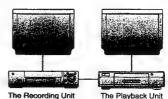
Press INPUT SELECT so that A2 is selected.

· If the playback unit is connected to the external input on the rear of this unit, select A1.

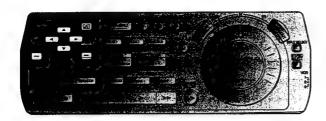
### Connecting this unit as the Playback VCR to an S-VHS (VHS) VCR

Follow the procedure described below.

- · Connect the edit cable to the EDIT socket on both the playback VCR and the recording VCR.
- Use AV cables to connect the output sockets on this unit with the input sockets on the S-VHS (VHS) VCR.
- . Connect two monitors, one to this VCR and one to the S-VHS (VHS) VCR, so that the screens from both VCRs can both be seen.
- Set EDIT CONTROL on this unit to EDIT.
- · Set EDIT MODE on this unit to PLAYER.
- · Press INPUT SELECT on this unit and select a position to which a cable is not connected.
- · Make the necessary editing control settings for the S-VHS (VHS) VCR. (Read the operating instructions of S-VHS (VHS) VCR.)



Audio Insert and AV Insert are not possible in this configuration.



### Preparations

- Confirm that the monitor is on and the VCR viewing channel is selected.
- Complete necessary connections and settings.
   See pages 24-29.

### Search with Sound

1 Press SET UP.



2 Select Search With Sound.





3 Select OFF, EDIT ONLY or ALWAYS ON.



OFF: The sound cannot be heard during special playback.

EDIT ONLY: The sound can be heard during special

playback only when an editing operation is in progress.

ALWAYS ON: The sound can be always heard during special playback.

4 Press EXIT to exit the On Screen Display.

### Audio Mode

1 Press SET UP.



2 Select Audio Mode.





3 Select 12bit or 16bit.





12bit: Divides the audio area into two stereo audio tracks, STEREO1 and STEREO2.

•If a recording is made in 12bit audio mode, the sound is recorded on STEREO1 only, and is not recorded on STEREO2. STEREO2 is used to record new audio that is added through Audio Dubbing or Audio Mixing.

16bit: Uses the entire audio area in order to record audio with greater quality.

4 Press EXIT to exit the On Screen Display.

### One-Touch-Edit

1 Press SET UP.



On Screen Display

2 Select One-Touch-Edit.



**AV-IN Color Level** 

1 Press SET UP.



2 Select AV-IN Color Level.





3 Select OFF or ON.



OFF: Select this whenever you are performing any editing function other than One-Touch-Edit.
ON: Select this in order to perform One-Touch-Edit.

 One-Touch-Edit is possible only when EDIT CONTROL is set to either DV or EDIT, and EDIT MODE is set to RECORDER.

4 Press EXIT to exit the On Screen Display.

3 Select SOURCE or ADJUST.



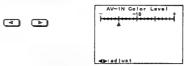
SOURCE: ADJUST: Normally set this position.

To adjust the color level of the input external recording source connected to A1

or A2

If you select ADJUST and then press OK, the AV-IN Color Level screen is displayed.

4 Adjust the color level using ◀▶.



5 Press SET UP, and then press EXIT to exit the On Screen Display.

### Motes

- If INPUT SELECT is set to DV IN, the Audio Mode, AV-IN Color Level, and AV-IN Hue Level cannot be selected on SET UP screen.
- The AV-IN Color Level and AV-IN Hue Level can be selected in following cases: INPUT SELECT is set to A1 or A2; When the VCR is in stop mode

# Creating the Tapes For Editing

### **AV-IN Hue Level**

1 Press SET UP.



2 Select AV-IN Hue Level.





3 Select SOURCE or ADJUST.



SOURCE: Normally set this position.

ADJUST: To adjust the hue level of the input external recording source connected to A1 or A2.

If you select **ADJUST** and then press **OK**, the AV-IN Hue Level screen is displayed.

4 Adjust the hue level using ◀▶.



The setting can be adjusted over a range of ±20.

5 Press SET UP, and then press EXIT to exit the On Screen Display.

### **Counter Adjustment**

1 Press SET UP.



2 Select Counter Adjust.





3 Select ON or OFF.



- ON: When the counter mode of the connected unit is set to "DV Time code".
- OFF: When a non-digital video equipment is connected. Also use this setting if a digital video equipment is connected but that VCR's counter mode is set to tape counter display.
- 4 Press EXIT to exit the On Screen Display.

### Notes

- If INPUT SELECT is set to DV IN, the Audio Mode, AV-IN Color Level, and AV-IN Hue Level cannot be selected on SET UP screen.
- The AV-IN Color Level and AV-IN Hue Level can be selected in following cases:

INPUT SELECT is set to A1 or A2; When the VCR is in stop mode

 The Counter Adjustment function operates automatically if a digital video equipment is connected but that tape counter is displayed.

### In order to operate editing functions correctly, use these tapes for editing as follows:

- Tape on which the picture and sound have been recorded properly for about 20 seconds prior to the edit start point: [Playback unit] [Recording unit] This VCR first rewinds the tape to the section prior to the edit start point and then commences editing. For this reason, accurate editing cannot be performed if the tape has been left blank or if the picture and sound have not been recorded properly for 20 seconds prior to the edit start point.
- Tape on which the Time code has been recorded continuously: [Playback unit] [Recording unit]
- If the recording is broken up or if the tape is blank in places, the Time code will lack continuity, and editing will be aborted.
- Tape which was recorded in SP mode: [Recording unit]
   (This applies to Insert, Audio Dubbing and Audio Mixing only.)
   The above types of editing operations cannot be performed on a tape which was recorded in the LP mode.
- Tape which was recorded in the 12bit audio mode: [Recording unit] (This applies to AV Insert, Audio Dubbing and Audio Mixing editing only.)
   The above types of editing operations cannot be performed on a tape which was recorded in the 16bit audio mode.

When a tape which was recorded on another video recorder is used for insert, Audio Dubbing or Audio Mixing editing operations, the sound may deteriorate and the picture may be disturbed.

# If tapes answering to the above description are not available, proceed with dubbing by following the steps below to create the tapes for editing.

- 1 Load the original cassette tape into the playback unit and the new cassette tape into the recording VCR (this VCR).
- 2 Connect the playback unit and recording VCR (this VCR).
  - For the connection, use the DV cable when the contents of the original cassette are to be copied using their original digital signals, and use the AV cable when the contents are to be copied using the signals from the video and audio sockets.
  - (To dub a 16bit audio tape and make a 12bit audio tape, connect the units using the AV cables, and proceed with the dubbing.)
- 3 Check that EDIT CONTROL is at the OFF position.
- 4 Set the VCR's tape speed to SP.
- 5 Record a blank picture for about 20 seconds. Set the playback unit to the stop mode, set INPUT SELECT on the recording VCR (this VCR) to A2 and start recording.
- 6 Switch over the input of the recording VCR (this VCR).
  If the DV cable was used for the connection in step 2, switch over to "DV IN"; if the AV cable was used, switch over to A1or A2.
- 7 Press the play button on the playback unit to start playing the original tape.
- 8 Press REC on the recording VCR (this VCR) to start dupbing.

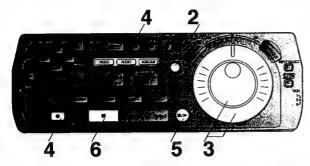
### Notes:

- Digital copying using a DV cable yields a picture quality which undergoes hardly any deterioration at all.
- If a digital video tape is dubbed without connecting the DV cable, the original sub code data (Photoshot index signals, date information, etc.) will not be copied.
- The Time code is simultaneously recorded over the sub code of the tape when the tape is recorded. Also recorded in the sub code are the photoshot index signals, information on the recording date, etc.

For further details on the Time code, see page 66.

# Editing when Not Using an Edit Cable

To connect a VCR or Movie Camera without an Edit Socket and use this unit as the Recording VCR.



### Preparations

- Complete necessary connections and settings.
   See pages 24-33.
- Connect the INPUT1 or AV2 on this unit to the playback unit

Set INPUT SELECT on this VCR.

- A1: Through the INPUT1 sockets.
  A2: Through the AV2 sockets.
- If the playback unit has a DV terminal, connect to the DV IN/ OUT on this unit with a DV cable.

### Operations

- Using the controls on the playback unit, search for the edit start point, and then pause the playback.
- Press JOG/SHUTTLE on this unit, and check that the button is



3 Search for the edit start point.



Press the button for the editing mode on this unit.
To copy the contents of the tape in the playback unit

as is: Press RC.
To insert picture: Press VIDEO INSERT.

To insert sound: Press AUDIO INSERT.
To insert picture and sound: Press VIDEO INSERT and then press AUDIO INSERT (or vice versa).
To add new sound: Press AUDIO DUB.
For Audio Mixing: Press AUDIO DUB and then press MIXING EDIT on the front right panel.

- The Audio Mixing procedure differs in part from other editing operations. See page 40.
- The indicator that corresponds to the selected editing mode lights on the VCR display.

### Indicators On the VCR Display













AV INSERT

- Press PAUSE/SLOW on this unit and start playback on the playback unit simultaneously.
  - Editing begins.
  - Press **E(STOP)** on this unit, and then press STOP on playback unit to stop editing.

#### Notes

- Although Copying can be performed in LP mode, Insert and Audio Dubbing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode;

Blank, or contains a blank portion in the middle.

 AV insert, Audio Dubbing and Audio Mixing are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode:

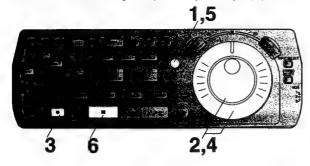
Recorded in LP mode;

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

 If the time display on this unit is set to tape counter mode during editing, this unit stops the editing operation automatically when the counter reaches "0:00.00".
 (This function does not work when using the Copying or Audio Dubbing functions.)

# One-Touch Assemble

If the One-Touch Edit function is used, Assemble editing can be performed by controlling the playback unit through this unit.



### **Preparations**

- Complete necessary connections and settings.
   See pages 24-33.
- · Set One-Touch-Edit toON on SET UP menu.

### **Operations**

1 Press JOG/SHUTTLE on this unit, and check that the button is lit.



2 Search for the edit start point on this unit.

Press JOG/SHUTTLE on this unit.

Editing begins.

To continue editing, press JOG/
SHUTTLE on this VCR, and repeat steps 4-5.

Search for the edit start point on the

playback unit using Jog dial and Shuttle Ring on this unit.

6 Press ■(STOP) on this unit to stop editing.

3 Press REC.

 The picture from the playback unit appears on the screen.

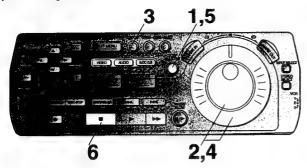
### Notes:

- Although Assemble editing can be performed in LP mode, Insert, Audio Dubbing, and Audio Mixing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- When using the editing controller for remote control: In order to conserve battery power, JOG/SHUTTLE turns off after one minute.

If JOG/SHUTTLE turns off after the edit start point has been set on the recording unit (step 2), it is necessary to press JOG/SHUTTLE again (so that it is lit) before searching for the edit start point on the playback unit. If JOG/SHUTTLE turns off after the edit start point has been determined on the playback unit (step 4), it is necessary to press JOG/SHUTTLE twice in order to start editing.

# One-Touch Insert/Audio Dubbing

If the One-Touch Edit function is used, Insert (Video Insert, Audio Insert, and AV Insert) and Audio Dubbing can be performed by controlling the playback unit through this unit.



### Preparations

- Complete necessary connections and settings.
   See pages 24-33.
- · Set to One-Touch-Edit ON on SET UP menu.

### **Operations**

1 Press JOG/SHUTTLE on this unit, and check that the button is lit.



Search for the edit start point on this unit.

Press the button for the editing mode on this unit.

To insert picture: Press VIDEO INSERT.
To insert sound: Press AUDIO INSERT.
To insert picture and sound: Press VIDEO INSERT and then press AUDIO INSERT (or vice versa).
To add new sound: Press AUDIO DUB.

- The indicator that corresponds to the selected editing mode lights on the VCR display.
- The picture from the playback unit appears on the screen.

### Indicators On the VCR Display



VIDEO INSERT



AV INSERT

SHOTTLE ALONG DUE

AUDIO DUBBING

#### Note

Video insert and Audio insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode; Blank, or contains a blank portion in the middle.

 AV insert and Audio Dubbing are not possible in the following cases;

When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode;

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

- If the time display on this unit is set to tape counter mode during editing, this unit stops the editing operation automatically when the counter reaches "0:00.00".
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- When using the editing controller for remote control:
   In order to conserve battery power, JOG/SHUTTLE turns off after one minute.

If JOG/SHUTTLE turns off after the edit start point has been set on the recording unit (step 2), it is necessary to press JOG/SHUTTLE again (so that ii is iit) before searching for the edit start point on the playback unit. If JOG/SHUTTLE turns off after the edit start point has been determined on the playback unit (step 4), it is necessary to press JOG/SHUTTLE twice in order to start oddition.

Search for the edit start point on the playback unit using Jog dial and Shuttle Ring on this unit.

Press JOG/SHUTTLE on this unit. stuffle

· Editing begins.

Press ■(STOP) on this unit to stop editing.

• To continue editing, press JOG/SHUTTLE

on this VCR, and repeat steps 4-5.

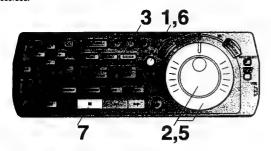
### To monitor the edited audio after Audio Dubbing

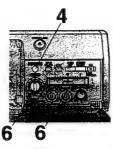
Press STEREO SELECT during playback and select STEREO2.

# One-Touch Audio Mixing

This function is used to mix the audio on STEREO1, which has already been recorded, with audio from a external recording source (A1 or A2), and record the result on STEREO2.

This function is useful for adding new audio, such as music or a narration, to the original audio which has already been recorded





### **Preparations**

- Complete necessary connections and settings.
   See pages 24-33.
- . Set to One-Touch-Edit ON on SET UP menu.

### Operations

- 1 Press JOG/SHUTTLE on this unit, and check that the button is lit.
  - is SHUTTL
- Search for the edit start point on this unit.
- Press AUDIO DUB on this unit.

   The picture from the playback unit appears on the screen.

- 4 Press MIXING EDIT on this unit.
- Search for the edit start point on the playback unit using Jog dial and Shuttle Ring on this unit.
- Press JOG/SHUTTLE on this unit.
  - Editing begins.
  - If you wish to adjust the volume of the original audio (STEREO1) and external recording source (A1 or A2) during Audio Mixing, AUDIO MIX: To adjust the volume of the original audio (STEREO1).

AUDIO REC LEVEL:

To adjust the volume of the audio from external recording source (A1 or A2).

 To continue editing, press JOG/SHUTTLE on this VCR, and repeat steps 5-6. 7 Press ■ (STOP) on this unit to stop editing.

### To monitor the mixed signal after Audio Mixing

Press STEREO SELECT during playback and select STEREO2.

#### Moteo:

Audio Mixing is not possible in the following cases:
 When the tape in the recording VCR (this unit) is:
 Recorded in 16bit audio mode;

Recorded in LP mode;

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

 In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.

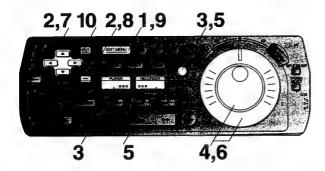
### When editing with a microphone

- 1. Connect the microphone to the MIC socket.
- 2. Press JOG/SHUTTLE.
- Use Jog Dial and Shuttle Ring to search the recording start point.
- 4. Press AUDIO DUB.
- 5. Press MIXING EDIT.
- Use AUDIO REC LEVEL slider to adjust the microphone level.
- 7. Press PAUSE/SLOW.
- 8. Press E(STOP) to stop editing.
- The audio from the microphone is recorded as monaural audio. Use audio cables to connect audio equipment, etc., in order to record in stereo.
- If both the MIC socket and the line inputs are connected, the audio from the MIC socket is given priority in recording.



# Manual Copying

This function can be used to copy tapes between digital video equipments with practically no deterioration in quality. This function can also copy a tape that was recorded in S-VHS (VHS) format onto a digital video tape.



### **Preparations**

Complete necessary connections and settings.
 See pages 24-33.

### Operations

20

1 Press EDIT MENU.



2 Check that Copying is selected and press OK.



- Press PLAYER, and then press JOG/ SHUTTLE.
  - The picture from the playback unit appears on the screen.

5.000 → SHUTLE

Search for the edit start point on the playback unit.

On Screen Display





Press RECORDER, and then press JOG/SHUTTLE.

 The picture from the recording VCR appears on the screen.



Search for the edit start point on the recording VCR.



7 Select Start Copying.



8 Press OK.
• Editing begins.



9 Press EDIT MENU to stop editing.



 Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to start.



• The On Screen Display disappears.



### On Screen Display

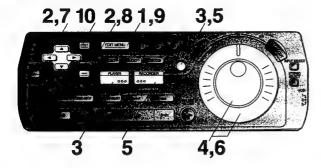




- lotes:
- If a digital video tape is copied without connecting a DV cable, the original sub code data (photoshot index signals, recording date, etc.) is not copied.
- Although Copying can be performed in LP mode, Insert and Audio Dubbing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second of slight deviation in the specified edit start position can be corrected. See page 64 for Edit Timing Adjustment.

# Manual Insert

This function is used to replace the picture and sound on a recorded tape.



### Preparations

 Complete necessary connections and settings. See pages 24-33. Example: Video Insert

### Operations

21

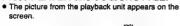
Press EDIT MENU.



Select Video Insert, and then Press OK. To insert picture: Select Video Insert. To insert sound: Select Audio Insert. To insert picture and sound: Select AV Insert.



Press PLAYER and JOG/SHUTTLE.





Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode;

Blank, or contains a blank portion in the middle.

On Screen Display





Search for the edit start point on the playback unit.

Press RECORDER and JOG/ SHUTTLE.

• The picture from the recording VCR appears on the screen.



Search for the edit start point on the recording VCR.



Select Start Insert.



Press OK. Editing begins.



Press EDIT MENU to stop editing.



· Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to start.

Press EXIT.

• The On Screen Display disappears.



Notes:

• AV Insert is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode:

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

 In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.



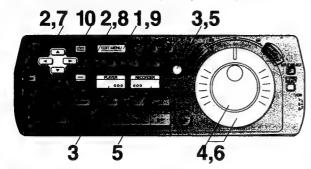
Insert In Progress

Video Insert

- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second ill slight deviation in the specified edit start position can be corrected. See page 64 for Edit Timing Adjustment.

# Manual Audio Dubbing

This function is used to add new sound on the STEREO2 track of previously recorded tape.



### Preparations

 Complete necessary connections and settings. See pages 24-33.

### Operations

Press EDIT MENU. 22



Select Audio Dubbing, and then Press



Press PLAYER and JOG/SHUTTLE.

· The picture from the playback unit appears on the



Search for the edit start point on the playback unit.

### On Screen Display



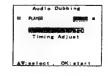


Press RECORDER and JOG/ SHUTTLE.

• The picture from the recording VCR appears on the



Search for the edit start point on the recording VCR.



Dubbing in Progress

Select Start Dubbing.



Press OK. · Editing begins.



Press EDIT MENU to stop editing.



 Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to

Press EXIT.

• The On Screen Display disappears.



To monitor the edited audio after Audio Dubbing

Press STEREO SELECT during playback and select STEREO2.

• Audio Dubbing is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode;

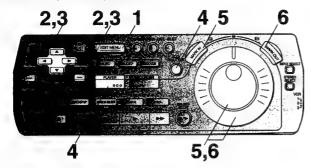
Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

- · In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up td ±1 second of slight deviation in the specified edit start position can be corrected. See page 64 for Edit Timing Adjustment.

# Program Assemble

This function can be used to link together desired scenes on a tape.

This function can also be used to skip unnecessary scenes recorded on a tape and copy them onto a separate tape.



### **Preparations**

 Complete necessary connections and settings See pages 24-33.

### Operations

1 Press EDIT MENU.



2 Select Program Editing, and then Press OK.



3 Select Assemble, and then Press OK.



### Notes

- Program Editing can be performed using either the tape counter or Time code display, but the Time code display should be used if the units are connected only by a DV cable.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programs screen is displayed. (The Erase all programs screen is also displayed when you change from the tape counter display to the Time code display.)

### On Screen Display





- After setting a program, if you attempt to set another program in a different editing operation, the set contents for the previous editing operation remain on the setting screen. In order to prevent editing errors, perform the Erase all programs operation (page 61) whenever you set a program under a different editing mode.
- Program editing can not be performed with a movie camera that has a 4-digit counter.

### Press PLAYER and JOG/SHUTTLE.

 The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit and press MARK IN.



Pege 1]

On 18 MATER

In Oh18 MS 8 20 f
Out h m s f

Sheet OK: dene

6 Search for the edit end point on the playback unit and press MARK OUT.

(Continued on next page)



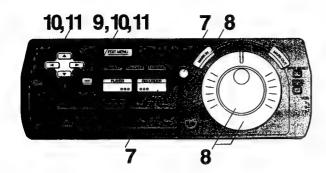
PLATER
Oh18m09s13f
In Oh18m09s13f
Oh18m09s13f
Oh18m09s13f
Oh18m09s13f

### lotes:

- Although Assemble editing can be performed in LP mode, Insert, Audio Dubbing, and Audio Mixing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The editing operation may not be performed correctly if the set duration of a program is less than 4 seconds.
- On video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

# Program Assemble (continued)



7 Press RECORDER and JOG/ SHUTTLE.

 The picture from the recording VCR appears on the screen.







Search for the edit start point on the recording VCR and press MARK IN.



9 Press OK.

 "OK: done" is not displayed at the bottom of the screen.



### To check and change programs:

- Select Confirm/Change and then press OK.
- To confirm, change, insert or erase editing programs, see pages 60-61.
- Programs cannot be inserted or erased through the recording unit.

### To continue setting programs:

- 1 Press EDIT MENU.
- 2 Press PLAYER.
- 3 Using ◀ ▶, select the program number. The program number changes each time these buttons are pressed. (Up to 40 programs can be set. 10 programs can be set

(Up to 40 programs can be set. 10 programs can be set on one page; If this number is exceeded, the display automatically changes to the next page.)

4 Repeat steps 4-6 and 9.

### On Screen Display





10 Select Start Assemble to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 After completing editing, select Review, and then press OK.

The edited pictures are played back.



To interrupt editing or Review:

Press EDIT MENU.

#### Notes

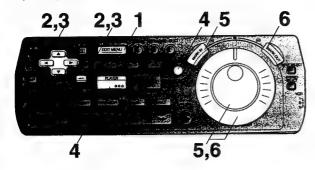
- The Preview function cannot be used with the Assemble function.
- Up to ±1 second of slight deviation in the specified edit start/end position can be corrected. See pages 62-63 for Edit Timing Adjustment.





# Program Insert

This function is used to replace the picture and sound on a recorded tape.



### **Preparations**

Complete necessary connections and settings.
 See pages 24-33.

Example: Video Insert

### **Operations**

1 Press EDIT MENU.

Select Program Editing, and then Press OK.



### Notes:

- Program Editing can be performed using either the tape counter or Time code display.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programs screen is displayed. (The Erase all programs screen is also displayed when you change from the tape counter display to the Time code display.)
- After setting a program, if you attempt to set another program in a different editing mode, the set contents for the previous editing mode remain on the setting screen. In order to prevent editing errors, perform the Erase all programs operation (page 61) whenever you set a program under a different editing mode.

On Screen Display

Copying Video insert Audio insert AV insert Audio Dubbing

- Program Editing can not be performed with a movie camera that has a 4-digit counter.
- Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode;

Blank, or contains a blank portion in the middle.

Select the desired editing operation, and then press OK.

To insert picture: Video insert.
To insert sound: Audio Insert.

To insert picture and sound: AV Insert.

**→**

4 Press PLAYER and JOG/SHUTTLE.

The picture from the playback unit appears on the screen.



5 Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

AV Insert is not possible in the following cases:
 When the tape in the recording VCR (this unit) is:
 Recorded in 16bit audio mode;
 Recorded in LP mode:

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

### Notes on editing point setting

- The Program Insert and Audio Dubbing functions require the setting of only three editing points: the in and out points on the playback unit and the in point on the recording unit, or the in point on the playback unit and the in and out points on the recording unit.
- If both in and out points are set on both the playback unit and the recording unit, and the times between the points do not match, editing stops at the first out point that is reached.

Assemble
Audio Insert
Av Insert
Audio Dubbing
Erase sil programe

Video Insert

(I)

IN PLATER

Ohoem36s24f

In Ohoem36s24f

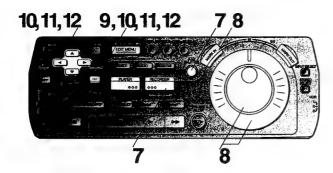
Out h m s f



- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The editing operation may not be performed correctly if the set duration of a program is less than 4 seconds.
- On video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

# Program Insert (continued)



Press RECORDER and JOG/ SHUTTLE.

> The picture from the recording VCR appears on the screen.



Search for the edit start point on the recording VCR and press MARK IN.



9 Press OK.



To check and change programs:

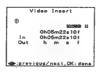
Select Confirm/Change and then press OK.

To confirm, change, insert or erase editing programs, see pages 60-61.

### To continue setting programs:

- 1 Press EDIT MENU.
- 2 Press PLAYER.
- 3 Using \( \infty\), select the program number. The program number changes each time these buttons are pressed.
- Up to 10 programs can be set.
- 4 Repeat steps 4-9.

On Screen Display





10 Select Preview to confirm the editing operation before performing actual editing, and then press OK.

 Preview begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 Select Start Insert to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



12 After completing editing, select Review, and then press OK.

The edited pictures are played back.



To interrupt editing, Preview or Review:

Press EDIT MENU.

### Note

Up to ±1 second of slight deviation in the specified edit start/ end position can be corrected. See pages 62-63 for Edit Timing Adjustment.

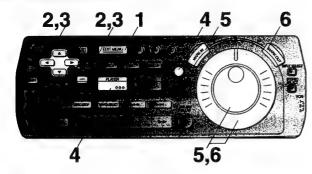






# Program Audio Dubbing

This function is used to add new sound on the STEREO2 track of previously recorded tape.



### **Preparations**

Complete necessary connections and settings.
 See pages 24-33.

### **Operations**

1 Press EDIT MENU.



2 Select Program Editing, and then Press OK.



On Screen Display



### Notes

27

- Program Editing can be performed using either the tape counter or Time code display.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programs screen is displayed.

(The Erase all programs screen is also displayed when you change from the tape counter display to the Time code display.)

- Program editing can not be performed with a movie camera that has a 4-digit counter.
- After setting a program, if you attempt to set another program in a different editing mode, the set contents for the previous editing mode remain on the setting screen. In order to prevent editing errors, perform the Erase all programs operation (page 61) whenever you set a program under a different editing mode.
- Audio Dubbing is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode;

Blank, or contains a blank portion in the middle When INPUT SELECT is set to DV IN. 3 Select Audio Dubbing, and then press OK.



Press PLAYER and JOG/SHUTTLE.

 The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

### Notes on editing point setting

- The Program Insert and Audio Dubbing functions require the setting of only three editing points: the in and out points on the playback unit and the in point on the recording unit, or the in point on the playback unit and the in and out points on the recording unit.
- If both in and out points are set on both the playback unit and the recording unit, and the times between the points do not match, editing stops at the first out point that is reached.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.



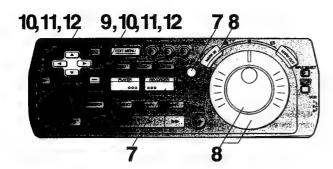




- The editing operation may not be performed correctly if the set duration of a program is less than 4 seconds.
- On video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

# Program Audio Dubbing (continued)



Press RECORDER and JOG/ SHUTTLE.

. The picture from the recording VCR appears on the



Search for the edit start point on the recording VCR and press MARK IN.



Press OK.



To check and change programs:

Select Confirm/Change and then press OK.

 To confirm, change, insert or erase editing programs, see pages 60-61.

### To continue setting programs:

- Press EDIT MENU.
- Press PLAYER.
- Using ◀ ▶, select the program number. The program number changes each time these buttons are pressed.
- Up to 10 programs can be set. 4 Repeat steps 4-9.





10 Select Preview to confirm the editing operation before performing actual editing, and then press OK.

· Preview begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 Select Start Dubbing to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.







12 After completing editing, select Review, and then press OK.

• The edited sounds are played back.





To interrupt editing, Preview or Review: Press EDIT MENU.

To monitor the edited audio after Audio Dubbing

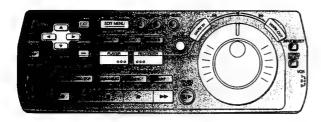
Press STEREO SELECT during playback and select STEREO2.

Up to ±1 second of slight deviation in the specified edit start/ end position can be corrected. See pages 62-63 for Edit Timing Adjustment.









Once all program settings are completed, the screen shown at right is displayed.

Example: Video insert

On Screen Display

This portion varies. depending on the editing function that was programed.

Conflictor Insert a program Erase a program Preview Stert Innert Review Timing Adjust CAVIDATESENDORUMANA

### To check/change programs:

1 Select Confirm/Change, and then press OK. The program list for the playback unit is displayed.

To check the program list for the recording unit, press RECORDER.

To just confirm the program settings, press EDIT MENU. Il corrections are needed, continue with the procedure described below.

- 2 Select the program number for which changes are to be made, and then press OK.
  - The Program Change screen for the selected program number is displayed.
- 3 Press JOG/SHUTTLE.
- 4 Use the Jog Dial/Shuttle Ring to search for the editing point that is to be corrected.

- 5 To change an edit start point, press MARK IN, To change an edit end point, press MARK OUT.
- 6 Once all changes are completed, press OK.
- 7 Press EDIT MENU.

On Screen Display







### .......... To insert a new program between existing programs:

- 1 Select Insert a program, and then press OK. •The program list is displayed.
- 2 Select the program number where a program is to be inserted, and then press OK. •The Insert a program screen is displayed.
- 3 Refer to the pages that describe the Program Editing functions (on pages 48-59), and set the new program.
- 4 When setting is complete, press OK.
- 5 Press EDIT MENU.

### \* To cancel a program:

- 1 Select Erase a program, and then press OK. The program list is displayed.
- 2 Select the program number to be erased, and then press
- 3 Press EDIT MENU.

### To cancel all editing programs:

- 1 Press EDIT MENU twice.
- 2 Select Program Editing, and then press OK.
- 3 Check that Erase all programs is selected and press
  - The Erase all programs screen is displayed.
- 4 Select YES, and then press OK.
- The screen returns to the Program Editing menu. After the message indicating that "All programs have been erased." appears on the screen, operation returns to the EDIT MENU screen.
- 5 Press EDIT MENU.

If the EDIT MENU screen is cancelled before the above procedure is performed, the method for displaying the Program Editing changes.

Press EDIT MENU so that the EDIT MENU screen is displayed. Use to select Program Editing, and then press

Programs set in the recording unit for the Assemble editing function cannot be inserted or erased.













# Edit Timing Adjustment

When performing editing in conjunction with a unit which has a different machanism, there may be a lag in the edit start point due to a deviation between the time a pause cancellation signal is received by the recording unit and the time recording actually

Edit Timing Adjustment is used to compensate the edit start and end time in light of this start-up time deviation.



### **Program Editing**

After setting edit start/end points, the actual editing operation may start slightly before or slightly after the position that was set, depending on the equipment that is connected. The procedure described below can adjust the edit timing in order to correct for errors of up to approximately ±1 second in the edit start points and edit end points on the playback unit.

Example: Video Insert

### Operations

Press EDIT MENU.



Select Program Editing, and then Press OK.



Select desired editing operation, and then press OK twice.



On Screen Display





Select Timing Adjust, and then press



Adjust the timing for the edit start point by setting the amount of the discrepancy for the start-up time.

• The setting ill displayed in frames (apporoximately 1/30 of a second) units. Press ▶if the start point is too early; press ◀ if it is too late.

• Each time the button is pressed, the tape moves

• Corrections can be made in the range of ± 30

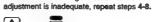
Adjust the timing for the edit end pont in same way.



Press OK.



Select Start Insert (Assemble or Dubbing), and then press OK. . If the results of editing indicate that the







• The procedure described on these pages is to be performed after exiting the EDIT MENU screen. If this procedure is performed after having executed Start Editing or Review, start this procedure from step 4 on the Video Insert (Assemble, Audio Insert, AV Insert or Audio Dubbing) screen.

• The adjusted frame unit is applied to all of the programs that have been set at the moment when the adjustment is









# Edit Timing Adjustment (continued)



### Manual Editing

If there is a deviation in the results of a manual editing operation, the timing of the edit start (In) position on the playback unit can be adjusted by approximately  $\pm$  1 second. Perform the procedure described below when setting an edit start point in any editing mode.

Example: Manual Copying

### **Operations**

Select Timing Adjust, and then press OK.

Adjust the timing for the edit start point by setting the amount of the discrepancy for the start-up time.

The setting is displayed in frames (apporoximately 1/30 of a second) units.

The setting is displayed in frames (apporoximately 1/30 of a second) units.

Press ▶if the start point

is too early; press ◀ if it is too late.

• Each time the button is pressed, the tape moves by 1 frame.

Corrections can be made in the range of ± 30 frames.

3 Press OK.

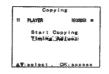
•••••

Dubbing), and then press OK.
If the results of editing indicate that the adjustment is inadequate, repeat steps 1-3.

Select Start Copying (Insert,



On Screen Display









# On Screen Display Messages

Before requesting service, check the following points once again.

The error message is indicated in brackets [ ].

[Please insert video tape.]

■ REC, ▷ (PLAY), ▶▶ (FF), ◄◄ (REW) or JOG/
SHUTTLE is pressed when no cassette is in the VCR.
Insert a video cassette.

[Recording not allowed. Check setting of the recordprevention tab.]

FREC, VIDEO INSERT, AUDIO INSERT or AUDIO DUB has been pressed when using a cassette with the opened record-prevention tab. Use a cassette with a closed record-prevention tab.

[This function cannot be made in the blank part of the tape.]

Are you trying to edit using a blank tape, or a tape that

contains a blank segment in the middle?

Editing is not possible in blank segments (because there are no Time codes). In order to use such a tape for editing, copy the tape once so that continuous Time codes are recorded on the tape, even if there is nothing else recorded on the tape. See page 33.

[This function is not allowed in LP-recorded section of the tape.]

It is not possible to edit a tape that was recorded in LP mode, or that was recorded partly in SP mode and partly in LP mode. Make a copy of the tape in SP mode and then use that tape. See page 33.

[This function cannot be made with 16bit mode audio recording.]

Does the audio mode change in the middle of the tape?

The Audio Dubbing and AV Insert functions can only be used on a tape that was recorded in 12bit audio mode. Make a copy of the tape in 12bit mode and then use that tape. See page 33.

[EDITING cannot be made. Please check switches setting and cables.]

- Are the necessary cables for controlling the playback unit (Edit cable or DV cable) connected? Connect cables for controlling.
- Is the playback unit turned off?
- Are EDIT MODE, EDIT CONTROL, and the input select setting on this VCR set properly for the desired editing operation?
- Is there more than one digital video device (including personal computers) connected to this VCR?
- Are this VCR and another unit connected to this VCR both set to control each other (if the connected unit is a digital video device)?

[Audio Dubbing or Audio Mixing cannot be made with DV input mode.]

Audio Dubbing and Audio Mixing functions will not work if INPUT SELECT is set to DV IN. Set to A1 or A2.

[AV Insert cannot be made with DV input mode.]

AV Insert will not work if INPUT SELECT is set to DV

[Please select DV input mode.]

Is EDIT CONTROL set to DV, but INPUT SELECT is set to something other than DV IN?

[This tape is an incorrect type. Please replace the tape.]

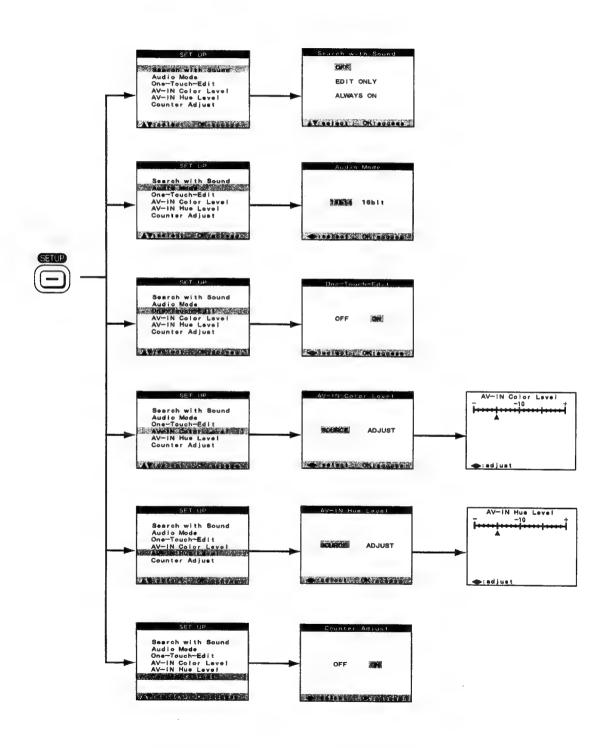
A video cassette tape other than a DV or MINI DV cassette has been inserted.

DVCPRO cassettes cannot be used with this VCR.

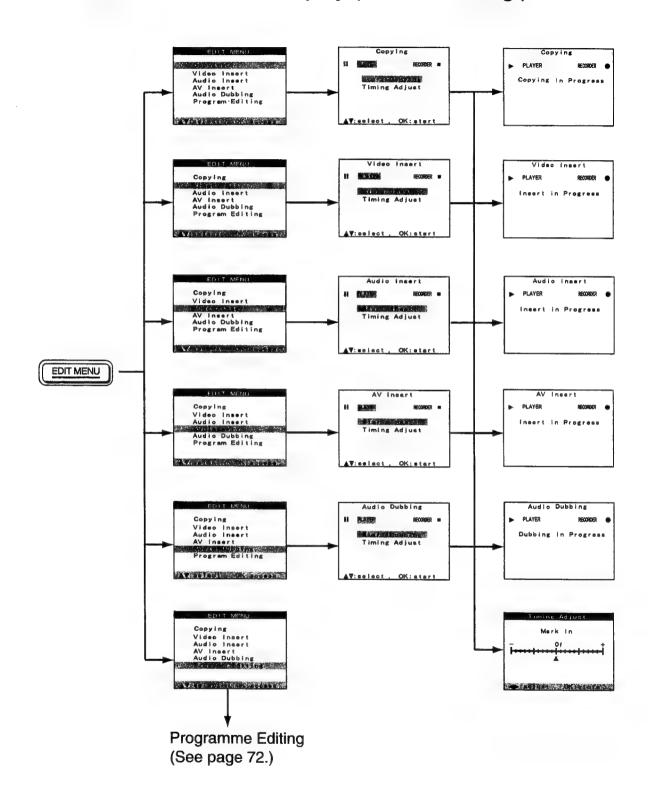
Other messages may also appear. Follow the instructions in the message.

## Flow Chart for On Screen Displays

## SET UP On Screen Display

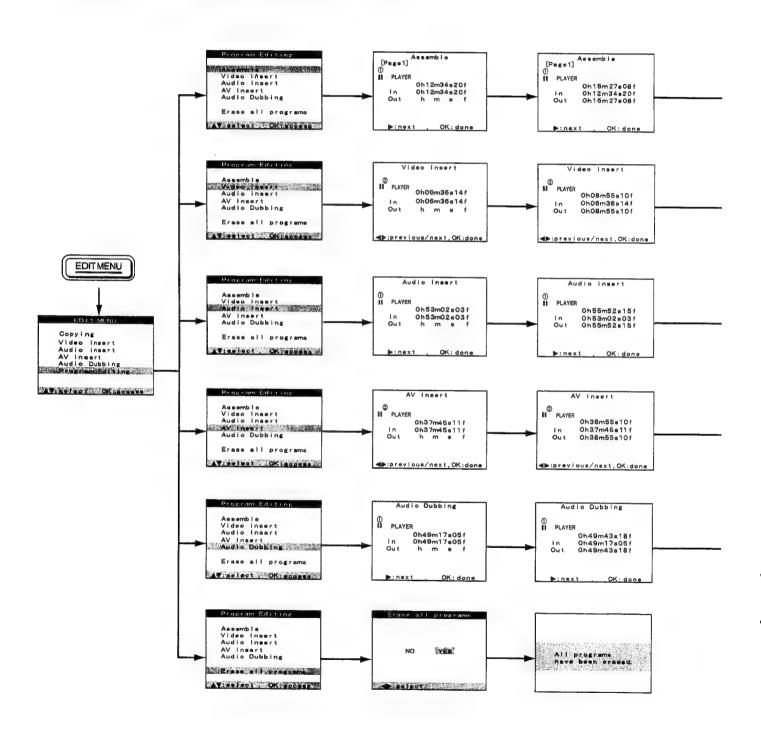


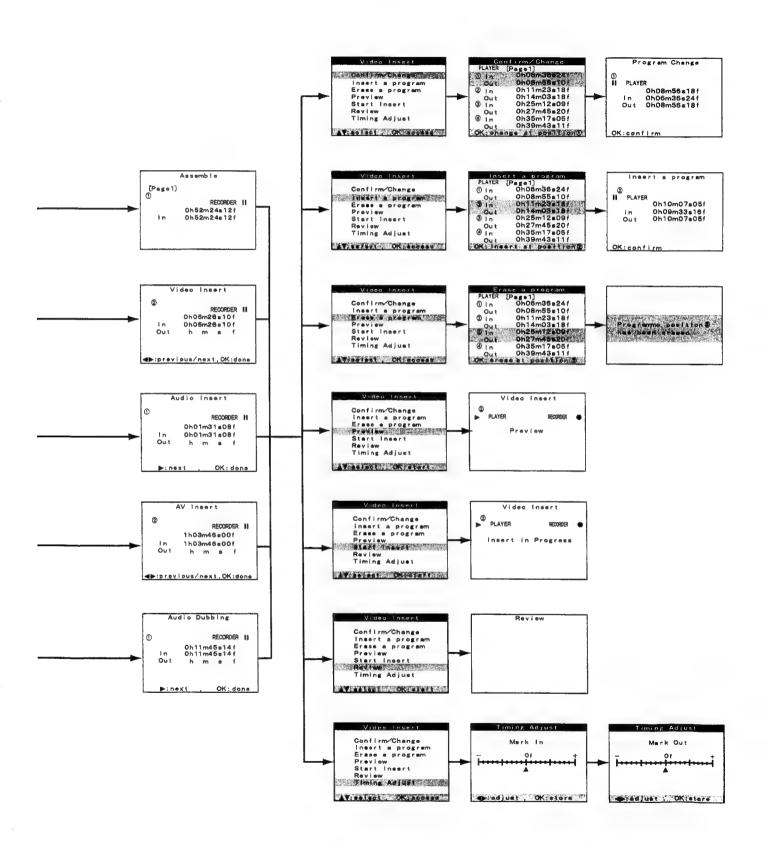
## EDIT MENU On Screen Display (Manual Editing)



# Flow Chart for On Screen Displays (continued)

Program Editing On Screen Display





# **ADJUSTMENT PROCEDURES**

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## SECTION 2 ADJUSIMENT PROCEDURES

### 3.DISASSEMBLY/ASSEMBLYPROCEDURES

## 3-1. Disassembly/Assembly Procedures for cabinet parts, C.B.A. and Mechanism Unit

3-1-1. Disassemble Flow Chart for cabinet parts, C.B.A. and Mechanism Unit.

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in reverse order.

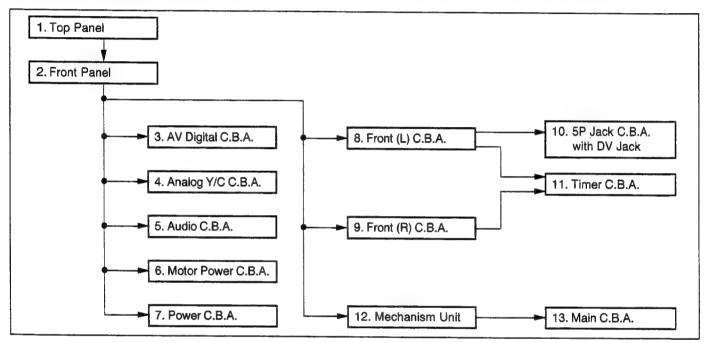


Fig. 1-1 Flow Chart

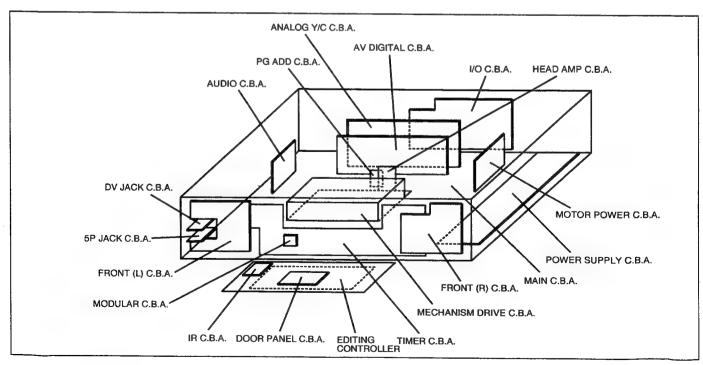


Fig. 1-2

## 3-1-2.Disassembly/Assembly Procedures (for cabinet parts, C.B.A. and Mechanism Unit)

No.	ITEM / PART	FIG.	REMOVAL (SCREW)
1	Top Panel	Fig. D-1	
			1-Screw (B)
			Remove Side Plate (6 Hooks).
2	Front Panel	Fig. D-2	2-Screws (C)
			1-Connector (P3701)
			9-Locking Tabs (a)
l		Fig. D-3	When Front Panel is installed,
			confirm the Connector P7504.
3	AV Digital C.B.A.	Fig. D-6	2-Screws (D)
1			2-Connectors (FP3201, P3701)
		Fig. D-5	
l			When the EVR Connection C.B.A.
			is installed, confirm the arrow
$\vdash$			direction on C.B.A
4	Analog Y/C	Fig. D-6	2-Screws (E)
	C.B.A.		
5			Note 2: 2-Locking Tabs (b)
6	Motor Power	Fig. D-6	1-Connector (P2502)
L	C.B.A.		Note 2: 2-Locking Tabs (c)
7	Power C.B.A.	Fig. D-6	` '
			7-Locking Tabs (d)
8	Front (L) C.B.A.	Fig. D-3	1-Connector (PS4851)
<u></u>			2-Locking Tabs (e)
9	Front (R) C.B.A.	Fig. D-3	1-Connector (P4801)
$\vdash$			2-Locking Tabs (f)
10	5P Jack C.B.A.	Fig. D-5	1-Screw (G)
1	& DV Jack		2-Connectors (P3781, P7651)
	C.B.A.		1-Locking Tab (g)
11	Timer C.B.A.	Fig. D-4	3
			(P7501, P7502, P7503)
			6-Locking Tabs (h)
12	Mechanism Unit	Fig. D-5	
1			Set the Mechnism to the
			"Eject" position.
1			4-Connectors
1			(P2705, FP5002, P6504, P6505)
_			3-Screws (H)
13	Main C.B.A.	Fig. D-6	
	L		8-Locking Tabs (i)

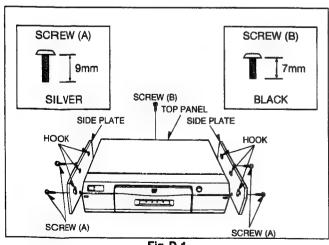


Fig. D-1

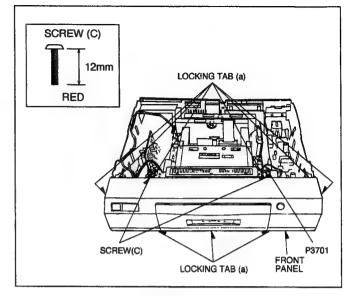


Fig. D-2

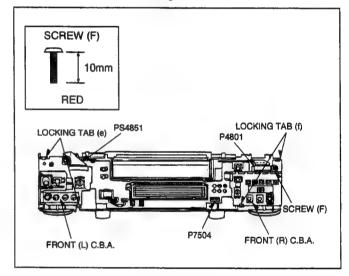


Fig. D-3

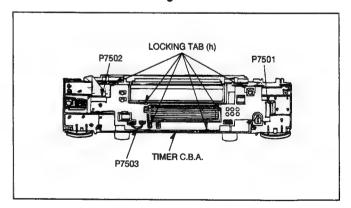


Fig. D-4

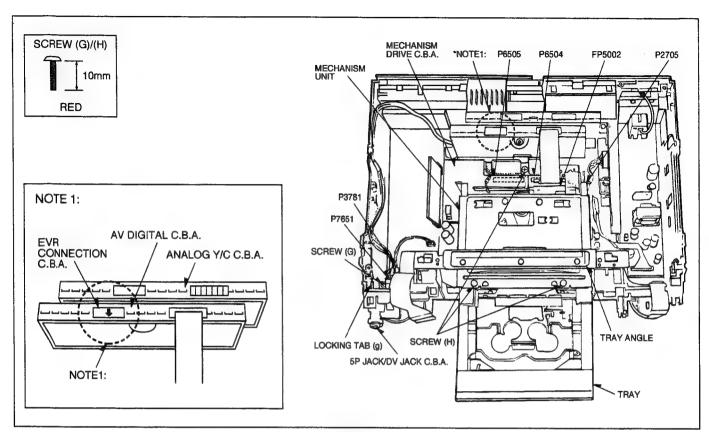


Fig. D-5

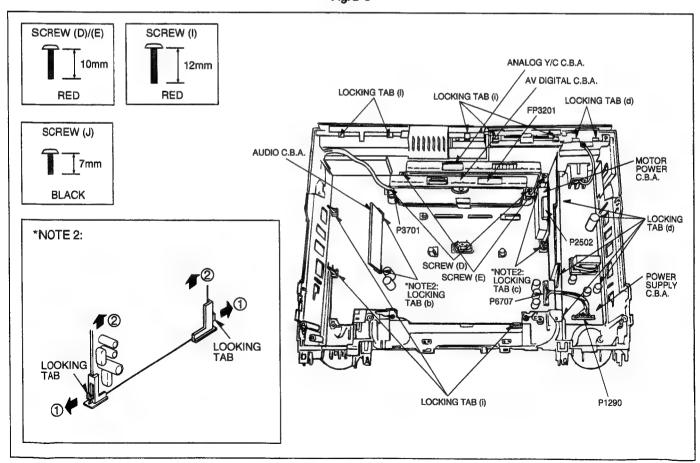


Fig. D-6

## 3-2. Disassembly/Assembly Procedures for Mechanism

#### 3-2-1. Disassemble Flow Chart for Mechanism

This procedure starts with the condition that the mechanism unit has been removed from the unit.

The following chart indicates disassembly steps of the mechanical parts in order to gain access to part for servicing. When reinstalling, perform the steps in reverse order.

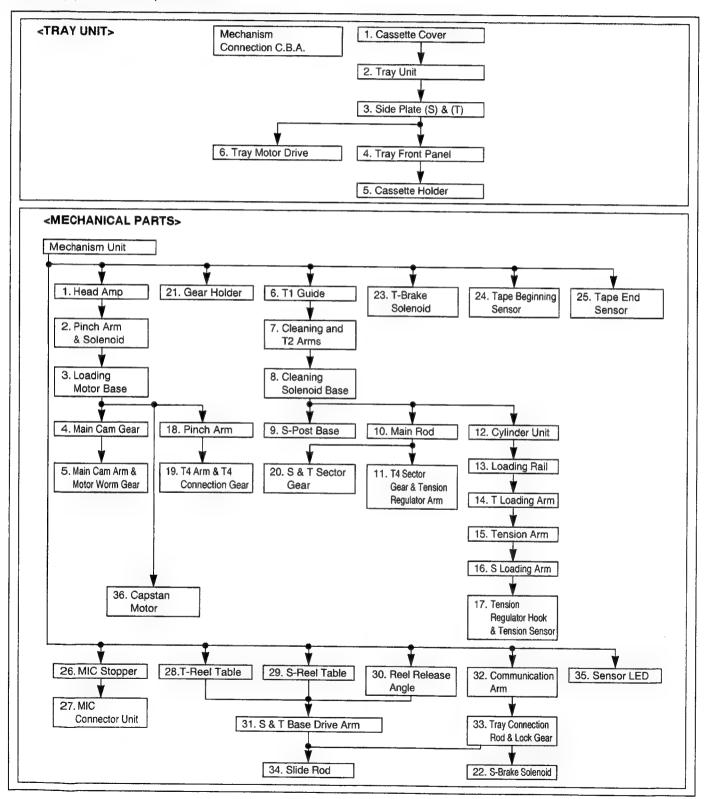


Fig. 2-1 Flow Chart

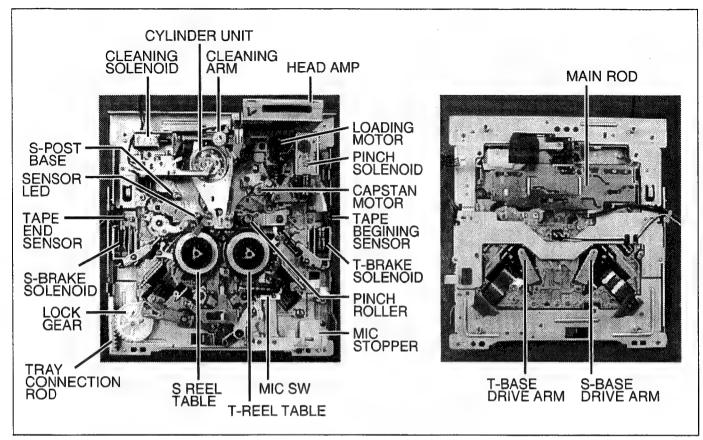


Fig. 2-2

#### 3-2-2. Disassembly/Assembly Procedures (for Mechanical Parts)

#### 1. Mechanism Connection C.B.A.

Unscrew 4 screws and disconnect following connectors.

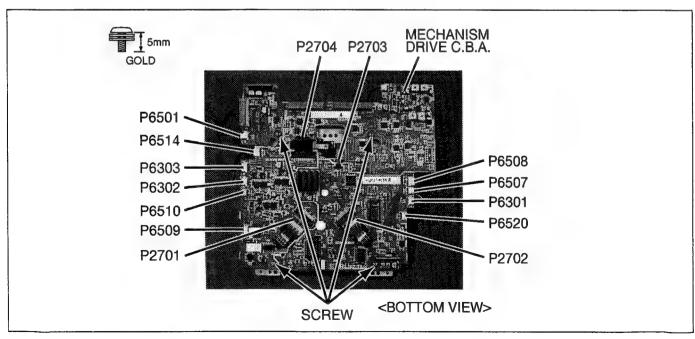


Fig. 2-3

#### 2. Tray Unit

#### 2-1. Cassette Cover

Fig. T-1 Set the Mechanism to Tray open position.

Unscrew 2 screws (A), then slide the Cassette
Cover and unhook the hooking portion.

Fig. T-2 When the Tray can not be opened normally, slowly turn the Tray Drive Shaft until the Tray is fully opened

#### 2-2. Tray Unit

Fig. T-3 Unscrew 4 screws (B) and disconnect P6502 when Mechanism Drive C.B.A. is connected to Mechanism Unit.

Fig. T-4 Since the Side Plate (S) is located underneath the Tray Connection Rod, then shift the Side Plate (S) in the front direction and lift it up.

#### Note of installation

Fig. T-5

Push the Tray Connection Rod in the rear direction and install the Tray Unit so that the Reel Shaft on the Side Plate (S) meets the groove on the Tray Connection Rod.

#### 2-3. Side Plate (S) and (T)

Fig. T-6 Set the Pinion Gear so that the projection (A) is aligned to the Dot Mark on the Rack (S) and (T) and remove the Side Plate (S) and (T).

#### Note of installation

Fig. T-10 Confirm the position of the Cassette Change Lever. (Down position)

Fig. T-7 Install the Pinion Gear so that the projection (B) on the pinion Gear is aligned to the hole on the Tray Drive Shaft Gear.

Fig. T-6 Install the Side Plate (S) and (T) so that the projection (A) is aligned to the dot mark on the Rack (S) and (T).

#### 2-4. Tray Front Panel

Fig. T-8 Unscrew 2 screws (C) and unlock 4 locking tabs (A), then remove the Tray Front Panel.

#### 2-5. Cassette Holder

Fig. T-9 Slightly open the S and T Rack Unit and slowly remove the Cassette Holder from the Groove on the S and T Rack Unit.

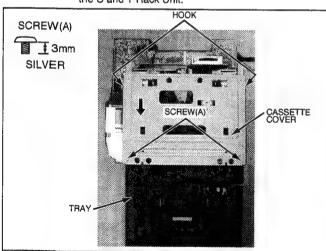


Fig. T-1

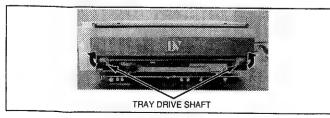


Fig. T-2

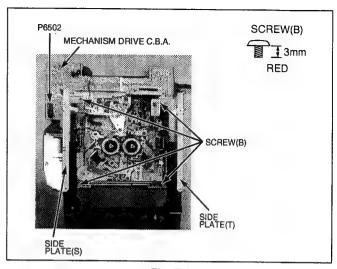


Fig. T-3

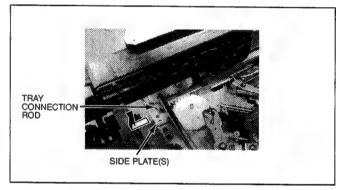


Fig. T-4

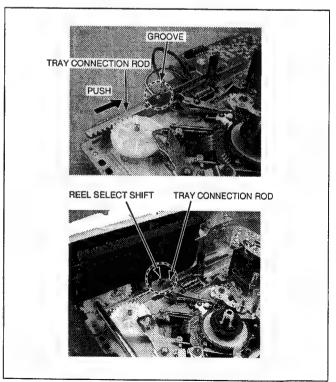


Fig. T-5

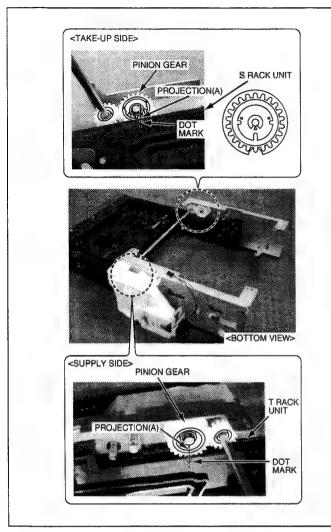


Fig. T-6

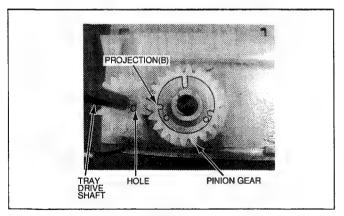


Fig. T-7

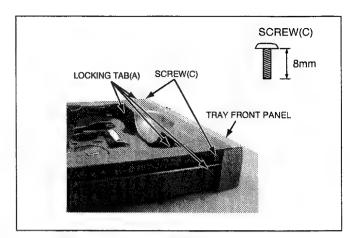


Fig. T-8

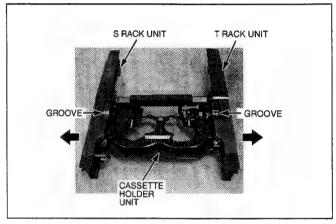


Fig. T-9

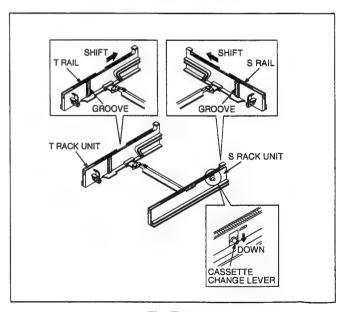


Fig. T-10

#### Note of installation

Fig. T-10 Shift the S and T Rail on the S and T Rack Unit to makethe Tray down condition.

Fig. T-11 Install the Cassette Holder Unit so that the projection (C) on the Cassette Holder meets the groove on the S and T Rack unit.

#### 2-6. Tray Motor Drive Unit

Fig. T-12 Unlock 3 locking tabs (B) and remove the Tray Motor Drive Unit.

Fig. T-13 Remove the Syncro. Drive Gear, Worm Foil Gear, Worm Gear and Tray Motor.

#### 3. Mechanical Parts

#### 3-1. Head AMP

Fig. M-1 Unscrew 2 screws (E).

Fig. M-2 Slide the Shield Case in up direction and remove the Shield Case.

Disconnect FP5001.

#### 3-2. Pinch Solenoid and Pinch Arm

Fig. M-3

Unscrew 2 screws (F) and remove Cut Washer.

Shift the Pinch Solenoid in left direction and remove the Pinch Solenoid and Pinch Arm.

#### 3-3. Loading Motor Base

Fig. M-4 Unscrew 5 screws (G) and (H) and remove the Loading Motor Base.

#### Note of installation

Fig. M-7

Fig. M-5

Set the Motor Worm Gear to the Loading Motor Shaft.

Install the Loading Motor Base so that the projection
(D)on the Mode SW meets the Hole on the Main Cam
Gear.

#### 3-4. Main Cam Gear

Fig. M-6 Remove the Main Cam Gear.

#### 3-5. Main Cam Arm and Motor Worm Gear

Fig. M-7 Remove the Main Cam Arm and Motor Worm Gear. Note of Installation

Fig. M-8 Install the Main Cam Arm so that the projection (E) on the Main Cam Arm meets the hole on the Main Rod.

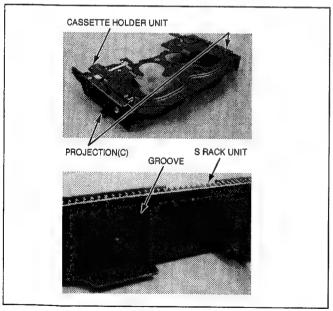


Fig. T-11

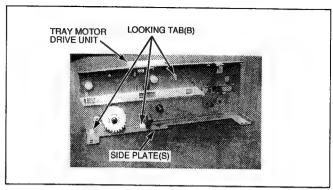


Fig. T-12

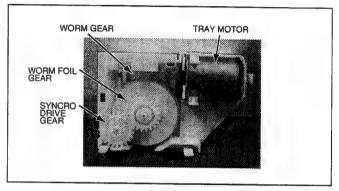


Fig. T-13

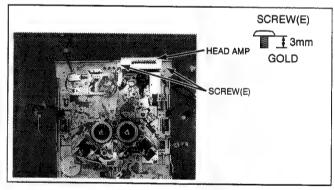


Fig. M-1

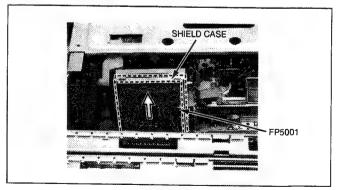


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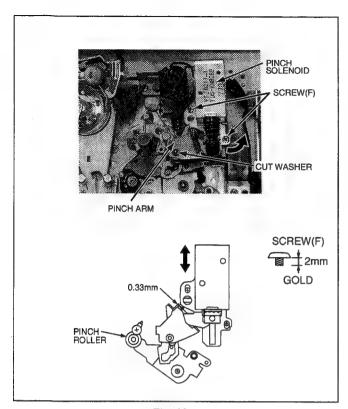


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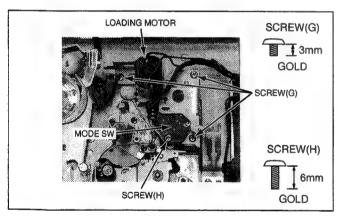


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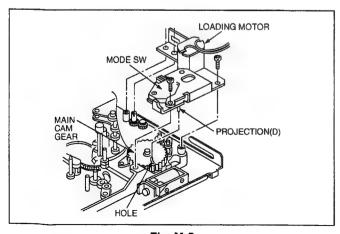


Fig. M-5

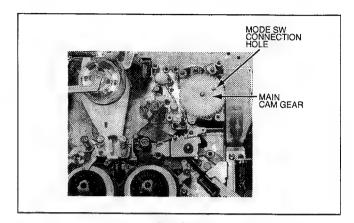


Fig. M-6

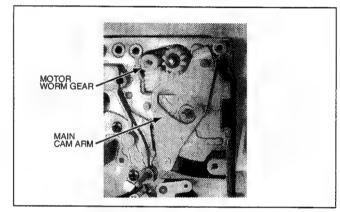


Fig. M-7

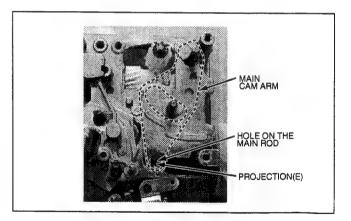


Fig. M-8

#### 3-6. T1 Guide

Fig. M-9 Unscrew 2 screws (1) and remove the T1 Guide.

#### 3-7. Cleaning Arm and T2 Arm

Fig. M-10 Unhook the Cleaning Spring.

Unlock the locking portion of the Cleaning Arm.

Remove the T2 Arm with Spring.

#### 3-8. Cleaning Solenoid Base and Cleaning Solenoid

Fig. M-11 Unscrew 3 screws (J) and remove the Cleaning Solenoid Base.

Fig. M-12 Unscrew 2 screws (K) and remove the Cleaning Solenoid.

#### Note of installation

Fig. M-10 Adjust the Cleaning Solenoid Base so that the gap between the Cylinder and Cleaning Arm becomes 1.0mm +/- 0.1mm.

Confirm that the Cleaning Roller rotates when the Cleaning Solenoid is turned on in the play mode.

#### 3-9. S-Post Base

Fig. M-13 Unscrew 1 screw (L) and remove the S-Post Base.

#### 3-10. Main Rod

Fig. M-14 Slide the Main Rod and remove it.

When the Cleaning Solenoid Base is not removed; Slightly shift the Cleaning Solenoid Base in direction and slide the Main Rod since the Main Rod is stopped by Cleaning Solenoid Base.

#### Note of installation

Fig. M-15 Install the Main Rod so that the each drive shaft meets the groove of the Main Rod. To lock the Main Rod, slide it in left direction.

#### 3-11. T4 Sector Gear and Tension Regulator Arm

Fig. M-16 Remove the T4 Sector Gear and Tension Regulator Arm.

#### Note of installation

Fig. M-17 Install the T4 Sector Gear so that the alignment hole of the T4 Sector Gear is aligned to the alignment gear of the T4 Arm.

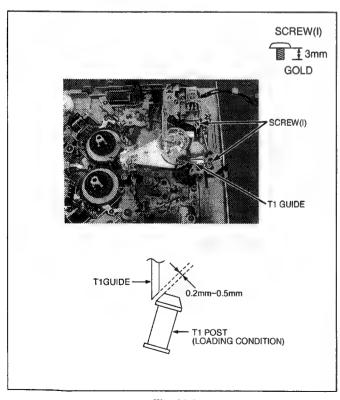


Fig. M-9

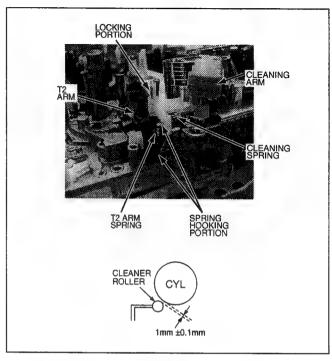


Fig. M-10

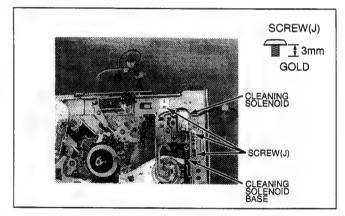


Fig. M-11

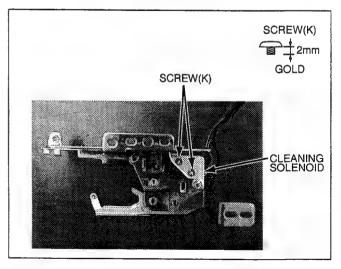


Fig. M-12

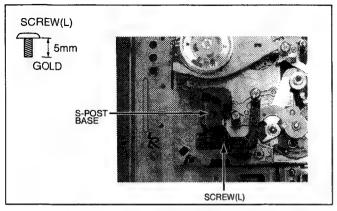


Fig. M-13

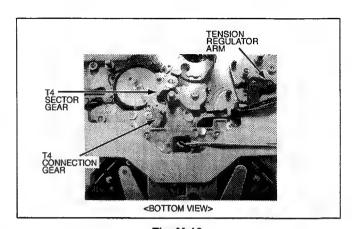


Fig. M-16

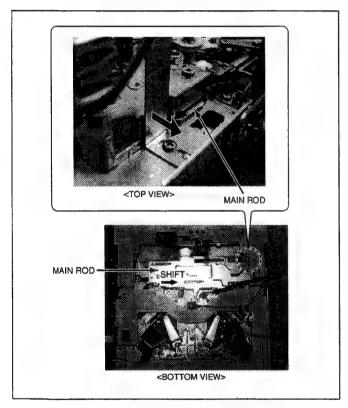


Fig. M-14

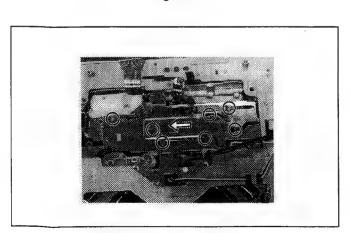


Fig. M-15

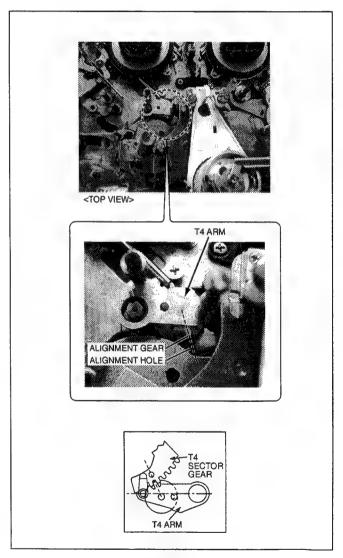


Fig. M-17

3-12. Cylinder Unit

Fig. M-18 Unscrew 4 screws (M) and (N). Then remove the Cylinder Unit carefully.

Fig. M-19 When removing or installing the Cylinder Unit, use extreme care so as not to damage the flexible cable.

3-13. Loading Rail

Fig. M-20 Unscrew 2 screws (O) and (P). Then slightly lift up the Loading Rail and slowly remove the S and T Loading Posts from the top side of the Loading Rail.

Note of installation

Fig. M-20 Install the S and T Loading Posts to the Loading Rail and set the Loading Rail to the chassis. Then install 2 screws (O) and (P).

3-14. T Loading Arm (Post)

Fig. M-21 Remove the E-Ring, washer and T Loading Arm.
When replacing the T Loading Arm, perform the 
"Mechanical Adjustment Procedures".

Note of Installation

Fig. M-21 Install the T Loading Arm so that the hole on the gear of the T Loading Arm is aligned to the hole on the T Sector Gear.

3-15. Tension Arm

Fig. M-22 Remove the cut washer and unhook the spring, thenremove the Tension Arm.

When replacing the Tension Arm, perform the "Mechanical Adjustment Procedures".

3-16. S Loading Arm (Post)

Fig. M-23 Remove the E-Ring, washer and S Loading Arm.
When replacing the S Loading Arm, perform the 
"Mechnical Adjustment Procedures".

Note of installation

Fig. M-23 Install the S Loading Arm so that the hole on the gear of the S Loading Arm is aligned to the hole on the S Sector Gear.

3-17. Tension Regulator Hook and Tension Sensor

Fig. M-24

Unscrew 1 screw (Q) located under the S Brake Solenoid, washer and Tension Sensor.

Remove the cut washer and Tension Regulator Hook.

When replacing the Tension Sensor, perform the "Mechanical Adjustment Procedures".

Note of installation

Fig. M-25 After installed Tension Sensor, confirm the position of the Tension Sensor cable.

3-18. Pinch Arm

Fig. M-26 Remove the cut washer and Pinch Arm with spring. Note of installation

Fig. M-26 Confirm the hooking portion of the spring.

3-19. T4 Arm and T4 Connection Gear

Fig. M-27 Remove the Nylon Nut using tweezers or box driver (2.5mm).

Remove the washer, spring and T4 Arm.

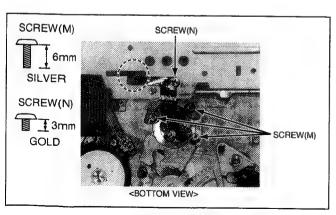


Fig. M-18

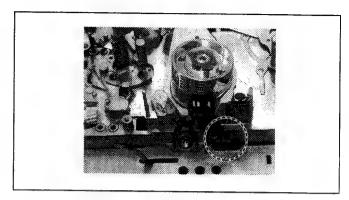


Fig. M-19

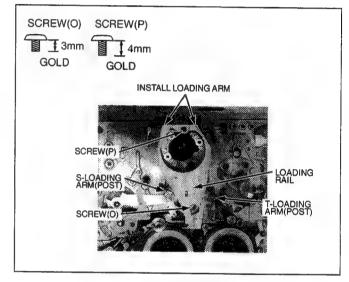


Fig. M-20

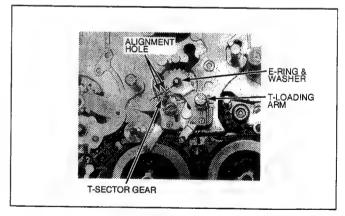


Fig. M-21

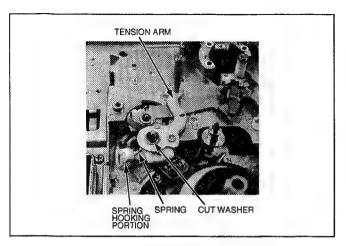


Fig. M-22

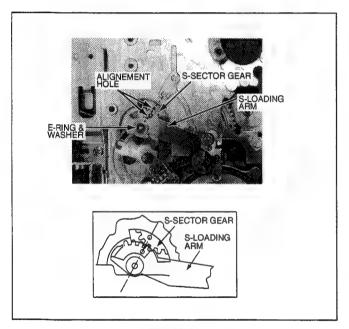


Fig. M-23

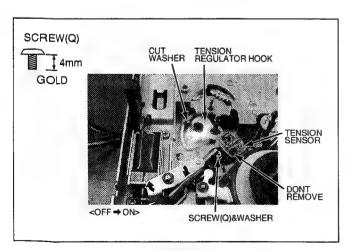


Fig. M-24

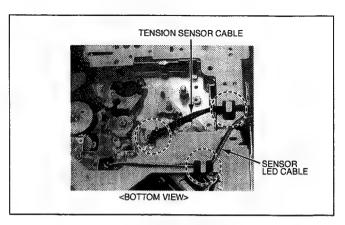


Fig. M-25

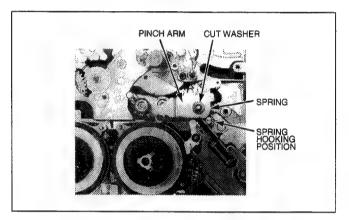


Fig. M-26

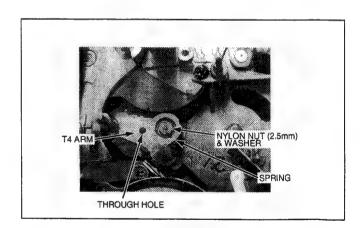


Fig. M-27

Fig. M-28 Remove the cut washer and T4 Connection Gear.

When replacing the T4 Arm and/or T4 Connection Gear, perform the "Mechanical Adjustment Procedures".

#### Note of installation

Fig. M-28 Install the T4 Connection Gear and cut washer.

Fig. M-27 Install the T4 Arm so that the through hole on the T4 Arm is aligned to the alignment hole on the T4 Connection Gear as shown in Fig. M-28.

#### 3-20. S and T Sector Gear

Fig. M-29 Turn the S and T Sector Gears to clockwise and remove these Gears.

#### 3-21. Gear Holder

Fig. M-30 Unscrew 2 screws (R) and remove the Gear Holder.

#### Note of installation

Fig. M-30 When installing the Gear Holder, confirm the position of the flexible cable of the Capstan Motor.

#### 3-22. S-Brake Solenoid

Fig. M-31 Unscrew 2 screws (S).

When removing the S-Brake Solenoid, the Tray Connection Rod must be removed because of the connector of the Solenoid is located between the Chassis and Tray Connection Rod.

#### Note of installation

Fig. M33 Adjust the S-Brake Solenoid so that the gap between the S-Brake and S-Reel Table becomes 0.2 to 0.5 mm (just release).

#### 3-23. T-Brake Solenoid

Fig. M-32 Unscrew 2 screws (T) and remove the T-Brake Solenoid.

#### Note of installation

Fig. M33 Adjust the T-Brake Solenoid so that the gap between the T-Brake and T-Reel Table becomes 0.2 to 0.5 mm (just release).

#### 3-24. Tape Beginning Sensor (T Sensor)

Fig. M-34 Unlock the locking portion and remove the Tape Beginning Sensor.

#### 3-25. Tape End Sensor (S Sensor)

Fig. M-35 Unlock the locking portion and remove the Tape End Sensor.

#### 3-26. MIC Stopper

Fig. M-36 Unscrew 2 screws (U) and remove the MIC Stopper.

#### 3-27. MIC Connector Unit

Fig. M-37 Unscrew 1 screw (V) and remove the cut washer and MIC Connector Unit.

#### Note of installation

Fig. M-37 Install the MIC Connector Unit so that the projection (F) meets the hole on the MIC Connector Unit.

#### 3-28. T Reel Table

Fig. M-38 Unscrew 4 screws (W) and remove the T Reel Table with 2 shifts.

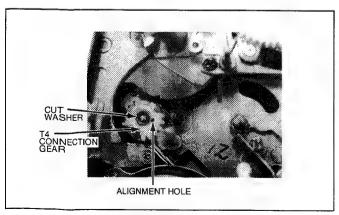


Fig. M-28

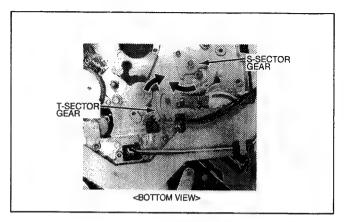


Fig. M-29

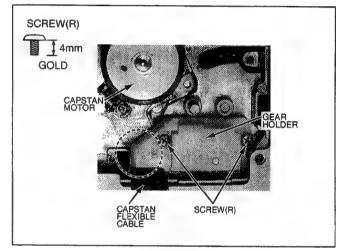


Fig. M-30

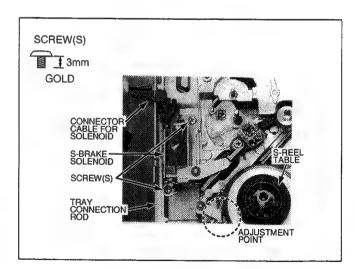


Fig. M-31

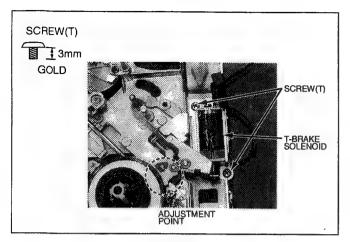


Fig. M-32

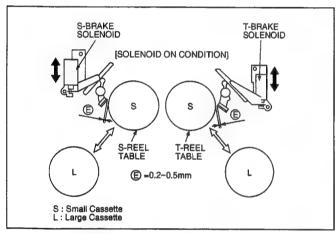


Fig. M-33

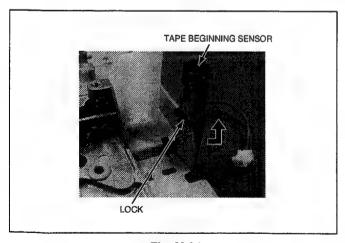


Fig. M-34

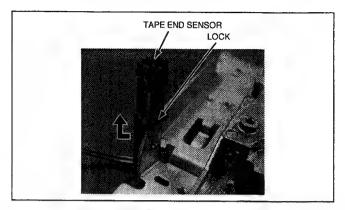


Fig. M-35

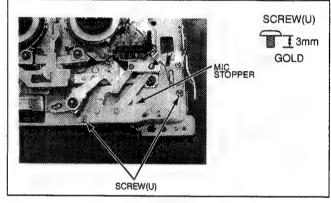


Fig. M-36

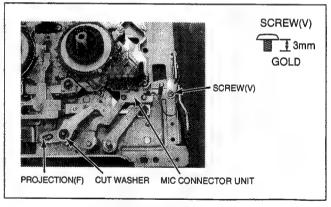


Fig. M-37

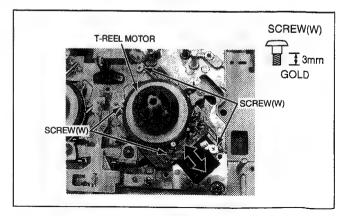


Fig. M-38

#### Note of installation

Fig. M-40 Set the inner and outer shafts to the T Reel Table.

Fig. M-41/42 Install the T Reel Table with 2 shafts so that the groove under the T Reel Table meets the projection (G) on the T Base Drive Arm.

Then install 4 screws (W).

#### 3-29. S Reel Table

Fig. M-39 Unscrew 4 screws (X) and remove the S Reel Table with 2 shifts.

#### Note of installation

Fig. M-40 Set the inner and outer shafts to the S Reel Table.

Fig. M-41/42 Install the S Reel Table with 2 shafts so that the groove under the S Reel Table meets the projection (G) on the S Base Drive Arm.

Then install 4 screws (X).

#### 3-30. Reel Release Angle

Fig. M-42 Unscrew 2 screws (Y) and remove the Reel Release Angle.

#### 3-31. S and T Base Drive Arm

Fig. M-43 Remove the cut washer, S and T Base Drive Arms.

#### Note of installation

Fig. M-43 Install the S and T Base Arms so that the projections (H) on the S and T Base Arms meet the groove on the Slide Rod.

#### 3-32. Communication Arm

Fig. M-44 Remove the cut washer and Communication Arm.

#### 3-33. Tray Connection Rod and Lock Gear

Fig. M-45 Pull the Tray Connection Rod in front direction to release the lock and remove it.

Remove the Lock Gear.

#### Note of installation

Fig. M-46 Install the Tray Connection Rod.

Then install the Lock Gear so that the hole on the Lock Gear is aligned to the hole on the Tray Connection Rod.

#### 3-34. Slide Rod

Fig. M-47 Remove the cut washer and Slide Rod.

#### 3-35. Sensor LED

Fig. M-48 Unscrew 1 screw (Z) and Sensor LED.

#### Note of installation

Fig. M-25 After installed Sensor LED, confirm the position of the Sensor LED cable.

#### 3-36. Capstan Motor

Fig. M-49 Unscrew 3 screws (a) and Capstan Motor.

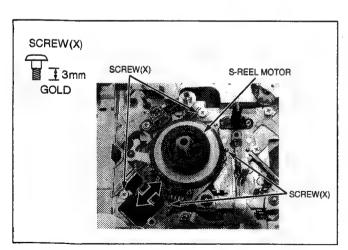


Fig. M-39

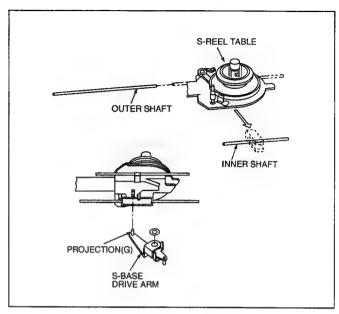


Fig. M-40

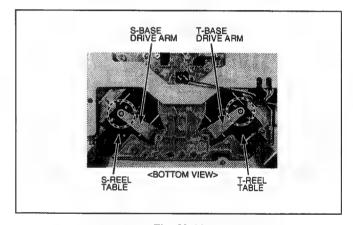


Fig. M-41

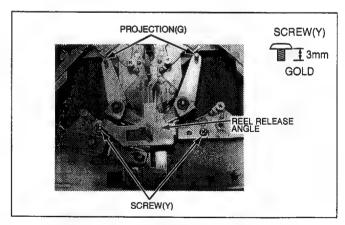


Fig. M-42

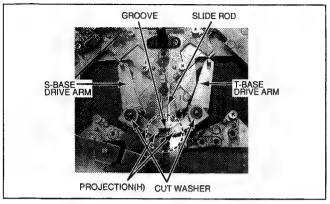


Fig. M-43

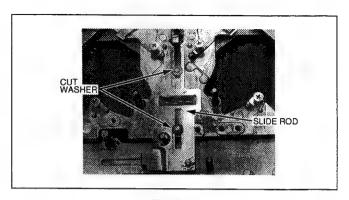


Fig. M-47

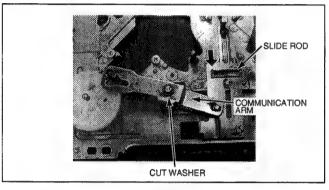


Fig. M-44

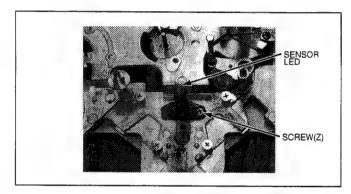


Fig. M-48

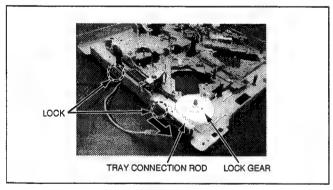


Fig. M-45

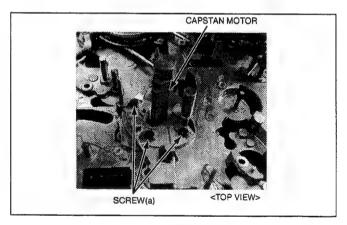


Fig. M-49

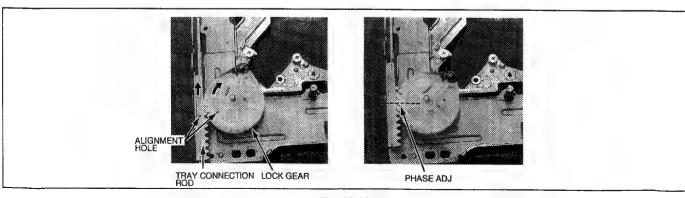


Fig. M-46

#### 4. MECHANICAL ADJUSTMENT

#### 4-1. Name of Tape Transportation

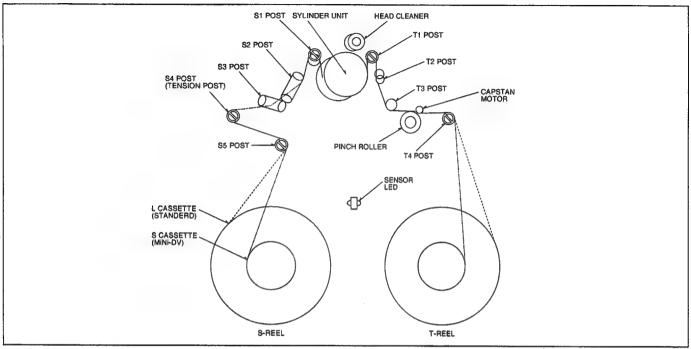


Fig. M-1

#### 4-2. Cleaning Procedures

Make sure the power is off before cleaning. Use ethanol (more than 99% purity) as cleaning liquid.

#### 4-2-1. Cleaning of Video Head

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.

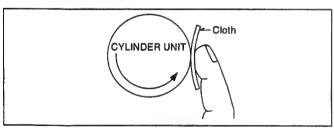


Fig. M-2

#### 4-2-2. Cleaning of Drum Lead

Be careful not to touch a head chip. Clean the drum lead with a pick.

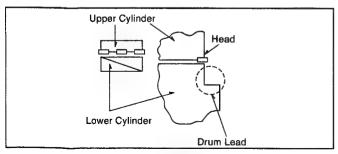


Fig. M-3

#### 4-2-3. Cleaning of Pinch Roller and Capstan

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.

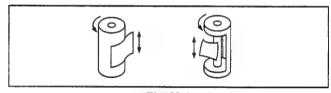


Fig. M-4

#### 4-2-4. Cleaning of each Post

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



Fig. M-5

#### 4-3. Reel Offset and Tension Arm Adjustment

Note

Before beginning adjustment from the item 4-4., the "Reel Offset" and "Tension Arm Adjustment" described on the "5. Electrical Adjustment" must be done as shown in Fig. E-1.

#### 4-4. T4, S4 and S5 Post Height Pre-Adjustment

Note:

Before this adjustment, the Servo Adjustment must be done. (Refer to "SECTION 5. Electrical Adjustment".)

- Confirm the Reel Table is located at L (Standard) cassette position.
   If it is located at S (Mini-DV) cassette position, turn power on and insert L cassette and eject the L cassette.
- Turn power off. Remove the Front Loading Unit. Then place the Mech. Plate (VFK1348A) on the Reel Table.
- Place the Post Height Adj. Tool (VFK1450) on the Mech. Plate as shown in Fig. M-6 and adjust the T4 post height by using the Box Driver (VFK1151).
- Adjust the S4 and S5 post height by using the Post Driver (VFK1278).
- Then turn S4 and S5 posts 1 round counterclockwise from lower limit position.

T4 Post: Lower Limit ( -0.5 +/- 0.05 mm) S4 Post: Lower Limit ( +0.2 +/- 0.05 mm) S5 Post: Lower Limit ( +0.2 +/- 0.05 mm)

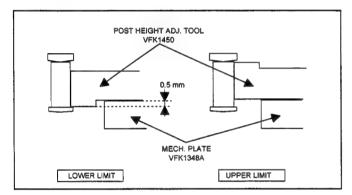


Fig. M-6

#### 4-5. Tape Pass Adjustment Procedures

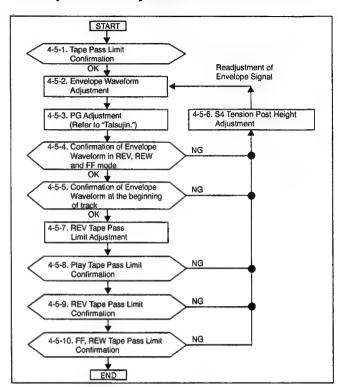


Fig. M-7

- 4-5-1. Tape Pass Limit Confirmation
  1. Place unit into Play mode, and adjust the height of each post do not to occurred tape damage.
  2. Regarding the S1 Post and T1 Post, refer to item "4-5-2. Envelope Waveform Adjustment".
  3. Confirm the tape pass limit of each post as shown in Fig. M-8.

POST NAME			Т	APE LIM	IIT			ADJUSTMENT	TAPE PASS LIMIT
	Α	В	С	D	E	F	G	PORTION	TALE LAGO ENVILL
4-5-1 Play Tape Pass	Limit Confirm	ation							
S5 Post	×	×	0	0	×	×	X	S5 Post	Lower Limit
S4 (Tension) Post	×	×	×	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	×	×	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	0	×	×	×	×	T4 Post Arm Nut	Free Limit
4-5-7 REV Tape Pass	Limit Adjustm	ent							
S5 Post	×	0	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	0	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	0	0	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	0	×	×	×	×	T4 Post Arm Nut	Free Limit
4-5-8. Play Tape Pass	Limit Confirm	ation							Tree Emile
S5 Post	×	×	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	×	0	×	×	×	S4 (Tension) Post	
S1 Post	×	0	×	×	×	×	×	S1 Post	Lower Limit
T1 Post	×	0	×	×	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	×	0	×	×	×	T4 Post Arm Nut	Envelope Adjustment
4-5-9. REV Tape Pass							<u> </u>	14 POSt Attit IVUL	Free Limit
S5 Post	×		0		V		.,	05.0	
S4 (Tension) Post	×	0	0	0	×	X	×	S5 Post	Lower Limit
S1 Post	×	0	×	×		×	×	S4 (Tension) Post	Lower Limit
T1 Post	×	0	Ô		×	×	×	S1 Post	Envelope Adjustment
T4 Post	×	0	0	0	×	×	×	T1 Post	Envelope Adjustment
					×	×	×	T4 Post Arm Nut	Free Limit
4-5-10. FF / REW Tape S5 Post		-							
	×	0	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post S1 Post	×	×	0	0	×	×	×	S4 (Tension) Post	Lower Limit
T1 Post	×	0	×	X	×	×	X	S1 Post	Envelope Adjustment
T4 Post	×	0	0	0	×	×	X	T1 Post	Envelope Adjustment
14 Post	×	0	0	0	×	×	×	T4 Post Arm Nut	Free Limit
			acceptab not acce						
A : Curl	B : Upper		C: Fre	e	D: Low	ver	E:0	Curl F: Bend	G : Drop
L									- · - · • •

Fig. M-8

#### 4-5-2. Envelope Waveform Adjustment

<Pre-Adjustment

- Hook up the PC EVR System as shown in Fig. 2-7 (Section 1).
   Then starts the RF / VITERBI Adjustment in the Video Section.
- Connect the oscilloscope to "Envelope" and "GND" on the Measuring TP Board (VFK1409). Then playback the Alignment Tape (VFM3110EDS) and adjust S1 and T1 posts so that the envelope output is within following specification (Fig. M-9). Use "HID1" as a trigger.

When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.

Adjust T1 post and makes exit side of the envelope flat then adjust S1 post.

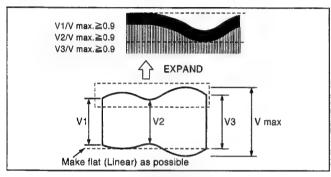


Fig. M-9

<Fine Adjustment>

- Playback the self recorded tape and readjust S1 and T1 posts so that the BER counter number becomes the minimum.
- After adjustment, unload the tape then loading the tape. Then confirm the waveform style and BER counter number is minimized.

#### 4-5-3. PG Adjustment

Since the adjustment procedure for "PG Adjustment" is supported only "PC EVR System", refer to "PC EVR" software.

## 4-5-4. Confirmation of Envelope Waveform in REV, REW and FF mode

- 1. Hook up the PC EVR System as shown in Fig. 2-7 (Section 1).
- Connect the oscilloscope to "Envelope" and "GND" on the Measuring TP Board (VFK1409).
- Confirm the Envelope Waveform signal is in the specification in the REV, REW and FF mode as shown in Fig. M-10.
- If it is out of specification, after adjusting the "4-5-6. S4 Tension Post Height Adjustment", confirm this "Envelope Waveform in REV, REW and FF mode" again.

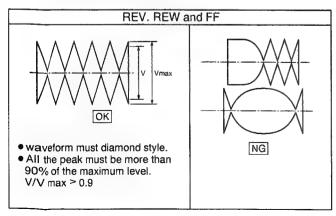


Fig. M-10

## 4-5-5. Confirmation of Envelope Waveform at the beginning of track

- Observe the Envelope Waveform signal by oscilloscope and confirm the envelope signal is in the specification in the transition from FF to Play, from REW to Play, from REV to Play and from Loading completion to Play.
- If it is out of specification, after adjusting the "4-5-6. S4 Tension Post Height Adjustment", confirm this "Envelope Waveform at beginning of track" again.

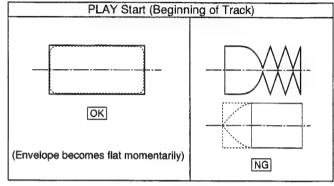


Fig. M-11

#### 4-5-6. S4 Tension Post Height Adjustment

Note

This adjustment should be done when the "4-5-2. Envelope Waveform Adj.", "4-5-4. Confirmation of Envelope in REV, REW and FF mode" or "4-5-5. Confirmation of Envelope Waveform at the beginning of Track" can not be achieved the specification.

- Rotate the S4 Tension Post height 90 degrees counterclockwise from lower limit position.
- Adjust S1 and T1 post height adjustment again. Refer to the "4-5-2. Envelope Waveform Adjustment".
- Confirm the "Play Start Envelope Waveform". Refer to the "4-5-5. Confirmation of Envelope Waveform at the beginning of Track".
- If it is not in the specification, repeat item 1 to 3. The maximum rotation angle is 360 degrees.
- Even the height is still out of specification, confirm the "4-4. T4, S4 and S5 Post Height Pre-Adjustment".

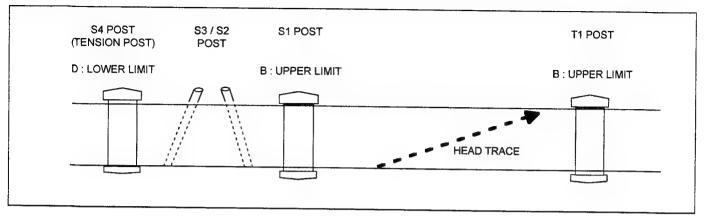


Fig. M-12

#### 4-5-7. REV Tape Pass Limit Adjustment

- Place unit into REV mode, and adjust T4 Post so that the lower limit touches the tape.
- 2. Confirm the tape pass limit of each post as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".

#### 4-5-8. Play Tape Pass Limit Confirmation

- 1. Place the unit into Play mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. Regarding T4 Post, confirm and adjust this confirmation alternately with "4-5-9. REV Tape Pass Limit Confirmation".
- 4. Confirm the tape pass limit for both L and S cassettes.

#### 4-5-9. REV Tape Pass Limit Confirmation

- Place the unit into REV mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. This adjustment should be done alternately with "4-5-8. Play Tape Pass Limit Confirmation".
- 4. Confirm the tape pass limit for both L and S cassettes.

#### 4-5-10. FF, REW Tape Pass Limit Confirmation

- Place the unit into FF and REW mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. Confirm the tape pass limit for both L and S cassettes.

## BLOCK, SCHEMATIC, CIRCUIT BOARD DIAGRAMS

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## SECTION 3 BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

### 3-1. ABBREVIATIONS

_	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	A GND	Analogue GND		AILRCK	L/R Clock (to A/D Converter)
	A. COMP	Audio Component Signal		AIMCK	Master Clock (to A/D Converter)
	A. D.P [L]	Audio Dubbing Pause (L)		ALC CNT	Auto Level Control Control
	A. DEF [S]	Audio Defeat	1	ALC MAIN	Auto Level Control Drive
	A. DUB P [L]	Audio Dubbing Pause (L)		ALE	Address Latch Enable
-	A. ERASE	Audio Erase		A-LOCK	Full Auto Switch
	A. HASW	Audio Head Amp Switching Pulse		ANLPTH	Analogue Loop Through High
	A. HSW	Audio Switching Pulse		AORP	Audio Overlap Pulse
	A. IN [L]	Audio Input (L)		APCNT	Aperture Control
	A. IN [R]	Audio Input (R)		APS	Auto Power Save
	A. MUT [H]	Audio Mute (H)		ART. V	Artificial Vertical Sync Signal
	A. MUTE [H]	Audio Mute (H)	-	ART. V. MM	Artificial Vertical Sync Signal Mono Multi
	A. OUT [L]	Audio Output (L)		ART. V/H/N	Artificial Vertical Sync Signal   //Normal
	A. OUT [R]	Audio Output (R)		AT. V/H/N	Artificial Vertical Sync Signal
	A. RF OUT	Audio RF Signal Output		ATSW/TEST/NOR/SE	
	A. TR	Auto Tracking		AT CNT	Automatic Tracking Gain Adjust
	A0-8, 0-17	Memory Address		ATF	Automatic Track Finding
	A3V2	AD Converter Reference Voltage		ATFCLK	41.85MHz Clock
	AB0-4	Address Bus		ATFG	Auto Track Gain
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15		ATL	Auto Lock Select
	ABSF	Focus Encoder Input		ATN	Absolute Track Number
	AC. O/EE. H	AC Online/EE (H)		ATR OFF(H)	Auto Tracking Off (H)
	ACI	Analogue Channel Cording IC		ATV	Advanced TV
	AD	AD Converter		AUDIO SELECT [H]	Audio Select (H)
	AD	Auto Date, Analogue Digital Converter		AVDD	Analogue VDD
	ADCLK	AD Clock		AVSS	Analogue Ground
	ADREC	Audio Delayed REC		AWTB	Auto White Balance B-Y
	AD0-6	Address		AWTR	Auto White Balance R-Y
	AD0-6, ADR0-6	Address Data Line			Add White Dalance (1-)
	ADCLK	Analogue Digital Converter Clock	В	B MODE, H	B Mode (H)
	ADONT	Analogue Digital Control	٦	B.G.P	Burst Gate Pulse
	ADCS	Analogue Digital Chip Select		BACK	Back-up
	A-DET	Audio Detect		BACK UP	Microcomputer Back-up
	ADREC	Audio Detaied Rec		BACK VDD	Back-up Power
	ADUB	Audio Dubbing		BATT	Battery
	AE	Auto Expose		BATT ALARM	Battery Alarm
	AECNT	Auto Expose Control		BATT REF	Reference Voltage for Battery
	AEE(H)	Audio E-E (H)	- 1	BCB	B Carrier Balance
	AEH	Audio Erase Head	-	BCBM(B-Y)	B-Y Carrier Balance
	AEIRQ	Auto Expose Interrupt Request		BCBM(R-Y)	R-Y Carrier Balance
	AF DIS CS	AF DIS Chip Select	- 1	BD0-7	REC/Play In/Out Buss
	AFCSC	AFC S Curve		BDCK	Standard Bus Data Clock (9MHz)
	AFC [S]	AFC S Curve		BDEN	Standard Bus Data Enable
	AFC. DEF	AFC Defeat	1	BEND	Data Block End Request
	A-FADE(L)	Audio Fade (L)		BF	Burst Flag Pulse
	AF-AMP	AF HALL Bias		BFA	Burst Flag Pulse for Encorder
		Auto Focus Chip Select		BFO/BFI	_
	AFCS	Audio Publica Control		BI, BO	Burst Flug Input/Output Buffer Input, Output
	AFRP	Automatic Gain Control	- 1	BI/MI [L]	Bilingual/Mix ①
	AGC			1	_
	AGCCNT	Automatic Gain Control Control		BIL	Bilingual (1)
	AGND	Analogue Ground/Audio Ground	- 1	BIL [L]	Bilingual (L)
	AGS	Anti Ground Shooting		BL ON	Back Light
	AH(P) / (R)	Audio Head (Play) / (Record)		BL ON	Back Light ON (L)
	AHASW	Audio Head Amp Switch Pulse	l	BL4V	Back Light 4V
	AHSW	Audio Head Switch Pulse		BLC 0, 1	Back Light Y Control Out, In
	AI, AO	Buffer Input, Output		BLDI/O	Back Light Drive Input/Output
	AIBCK	Bit Clock (to A/D Converter) Serial Data (to A/D Converter)		BLK	Blanking Pulse
	AIDAT			BLKA	Blanking for Encorder

	INITIAL/LOGO	ABBREVIATIONS	INITIAL/LOGO	ABBREVIATIONS
	BLKA	Blanking Pulse for Encorder	CH1	Channel 1 (Odd Field)
	BLKI/O	Blanking Pulse In/Out	CHR	Character
	BLKZ	Blanking Pulse for Zoom Encorder	CHR BACK	Character Back-up
	ВМ	Balance Modulator	CHR MIX	Character Mix
	BQUIET	Bus Out Control Signal	CI, CO	Buffer In/Out
	BS CLOCK	BS Clock	CI,CO	Buffer Input & Output
	BS DATA	BS Data	CIF	Control Signal Forward Input
1	BS LCH IN	BS L Channel Input	CIF, CIR	Positive Control Pulse, Negative Control Pulse
	BS MIX [H]	BS Mix (H)	CIR	Control Signal Reverse Input
	BS MONI [H]	BS Monitor (H)	CK	Clock
	BS MONI [H]	BS Monitor (H)	CKL	Ratch Lock
Į	BS RCH IN	BS R Channel Input	CKS	Shift Lock
1	BUF IN/OUT	Buffer In/Out	CL/CLK	Clock
l	B-Y KB	B-Y Carrier Balance	CLASS	Classeffication Signal for Compress (DCT/VLC)
1	B-YO	B-Y Signal Out	CLASS 0.1	Class Control Signal Durring DCT/VLC
			CLK135	13.5MHz System Clock
C	C A In/Out	Pre-Aperture In/Out	CLK18	18MHz System Clock
	CAPSTP	Capstan Stop Flag	CLK2	Clock 2 (824XFH: 12.875MHz)
	C CNT	Colour Control	CLK246	24.576MHz Clock
	C SYNC C/N	Composite Sync Signal	CLK27	27MHz System Clock
		Carrier/Noise	CLK450	450KHz Clock
	C0-7, C00-07 CAGAIN	Chrominance Signal 0-7	CLKDCLK	Digital Clock
	CAGAIN CAM TL	Aperture Gain Control	CLK-PH	Clock Phase Control
	CAP EC	Capstan Trave Control	CLK-REF	Reference Clock
1	CAP M GND	Capstan Trque Control Capstan Motor GND	CLP-RST-H	Clamp Reset High Signal
	CAP P(H)	Capstan Power On (H)	CLY FG	Cylinder FG Signal
	CAP R/F/S	Capstan Reverse (H)/Stop (M)/Forward (L)	CMEMO0-3	Chroma Memory Output Signal 0-3
1	CAP SW	Capstan Power Control Switch	CMIX	Character Mix
	CAP. ET	Capstan Torque Control	COL/B/W/NOR	Chrominance Memory Output
	CAP. FG1	Capstan FG1 Pulse	COLOR [H]	Colour/Black & White/Normal
	CAP. FG2	Capstan FG2 Pulse	COMPC	Position Detection Pulse
	CAPSTPH	Capstan Stop Flag (Stop High)	COM RDY	Serial Enable Signal
	CAPVM	Capstan Motor Current	CNCLK	Clock
	CAPVS	Capstan Motor Power Control Switch	CNR	Chrominance Noise Reduction
1	CAS. SW	Cassette SW	CNT, CONT	Control
1	CAS	Compresion, Audio Process, Shuffling/Deshuffling	co	Control Out
	CAS	Memory Address Strobe (Active Low)	CO0-7	Chrominance Output 0 to 7 (Digital)
	CASDOWN, DWN	Cassette Down (L)	COM	Common
	CB, CR	Chroma B, Chroma R	COM RDY	Serial Transmission Enable
	CBLK	Composite Blanking Pulse	COMB	Comb Filter
	CC	Channel Cording	COS EQ	Cosin Equalizer
	CCA	Curent Drive Control	CP	Clamp Pulse
	CCA CCD	Current Control Amp	CP ON(H)	Camera Power On(H)
	CCD	Charge Coupled Devise	CP2, 20	Clamp Pulse
	CD SP0-7	Counterclockwise	CP2A, CP2O	Encoder Clamp Pulse
	CDSPU	Digital Chroma	CPN	Component Signal
	CDS1, 2	Correlate Double Sampling Signal	СРОВ	Clamp Pulse for Optical Blanking
	CE CE	Sampling Pulse for CCD Output Signal Chip Enable	CPS	Composite Signal
	CE	Control Pulse Erase	CPV	Gate Scan Clock
	CEC	Capstan Error Code	CR OUT	Pre Apature Out
	C-ERA(H)	Control Erase (H)	CR POW SW	Camera Remote Power On Switch
	CFEM	Chrominance Memory Signal	CRA	Aperture Gain Control
	CFM	Chrominance Memory Signal Chrominance Field Memory	CRA	Pre Apature Gain Control
	CFM1-4	Chroma Field Memory Signal	CS CS 0-7	Chip Select
	CG CLK	Character Generator Clock	CS 0-7	Chrominance Signal Out 0-7
	CG CLK DATA	Clock Generator Data	CSEL CSI 0-7	Clock Phase Select
	CG DATA	Character Generator Data	CTSW	Chrominance Signal In 0-7
	CGC	Chrominance Gain Control	CURR	Crosstalk Switch Current
1	CGCS	Character Generator Chip Select	CURRENT LIM	Current Current Limmiter
	CGO	Character Generator Serial Data	CM	Clockwise
L	СН	Charge	CYL ET	Cylinder Motor Traue Control
			TOILL	Opiniuer words and a control

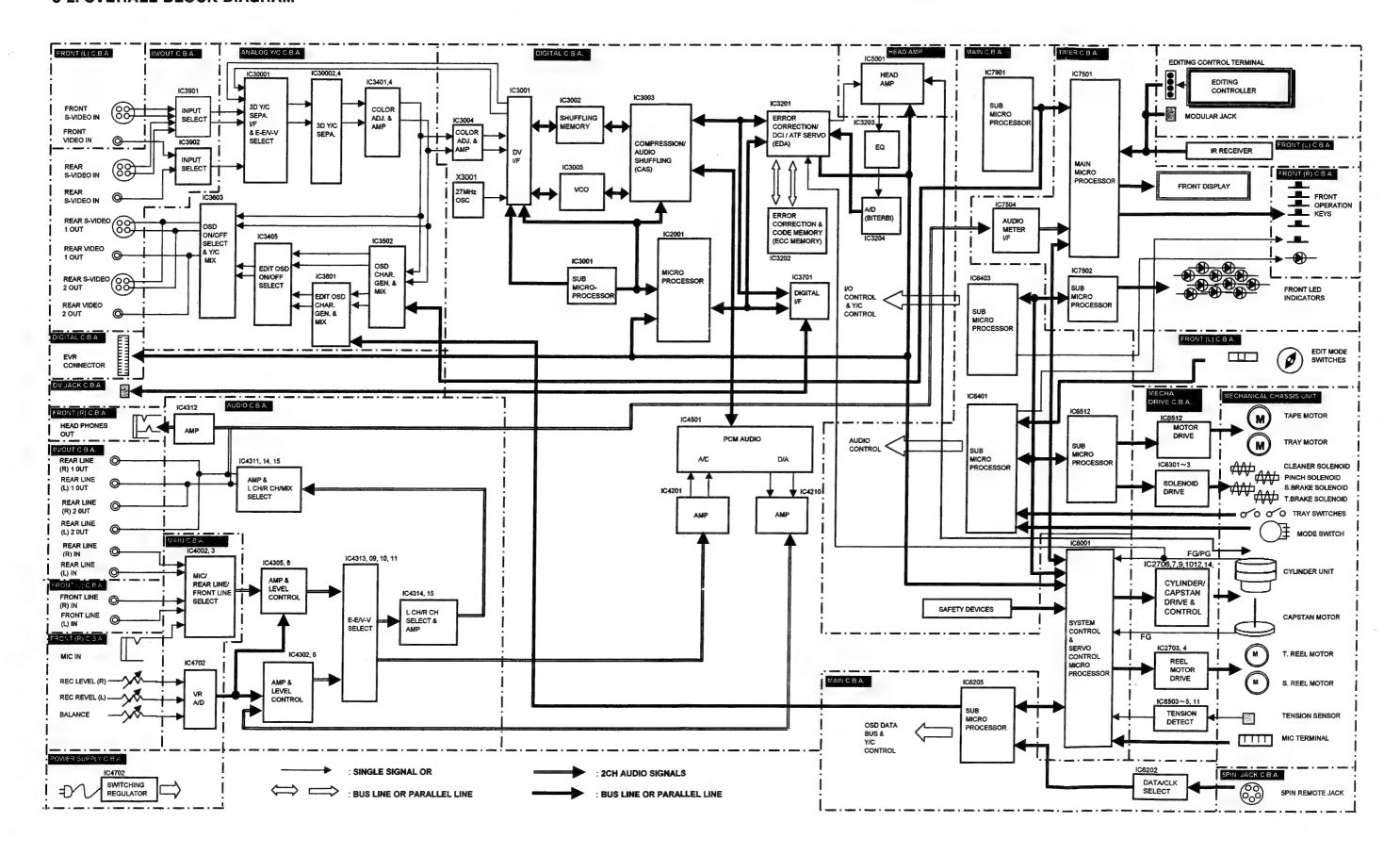
	INITIAL/LOGO	ABBREVIATIONS	<u> </u>	INITIAL/LOGO	ABBREVIATIONS
	CYL PG	Cylinder Motor PG		DSF 0-7	Input/Output Data to Shuffling Memory (18MHz
	CYL VM	Cylinder Motor Current or Power		DSP	Digital Signal Processor
				DSP R/B	DSP IC Rady/Busy
D	D CLK	Digital Clock		DSP-48K-H	DSP IC Clock Select
	D MODE	Digital Mode Switch Signal		DSTB	Data Stobe Signal
	D. FM REC [H]	Delaied FM Recording (H)		DSV	Digital Sum Variation
	D. FM REC [L]	Delaied FM Recording (L)		DV	Digital Video
	DA UV SEL	D/A Convertor U/V Select		DVB	Digital Video Broadcast
	DAC	Digital Analogue Converter		DVC	Digital Video Cassette
	DAG	Digital Analogue Ground		DVDD	Digital VDD
	DB0-7	Data 0-7		DVIO	Digital Video Input Output
	DB0-7	Microprocessor Data		DVSS	Digital GND
	DCC	DC Clamp Control			January Care
	DCCNT	DC Control	Ε	E2 CS or E2P CS	EEPROM Chip Select
	DCI	Digital Channel Cording IC	_	E2 R/B	EEPROM Rady/Busy
	DCLR	Digital Clear		E2P	EEPROM
	DCP	Digital Clamp Pulse		EARP	Earphone
	DCS-CLK, DA	CAS & DV I/F Serial Clock		EC	
	DC-STP1	DCS Serial Start			Torque Control
	DC-STP2	DCS Serial Start DCS Serial Stop		ECC	Error Correction Cording
	DCT				Electric Condencer Mic
	DCX7	Discrete Cosine Transform (Compression) Serial Data		ECR	Reference Voltage for Capstan Torque
				EDA	Error Correction, DCI, ATF Servo
	DEDP 0-3	Playback Data		EDT TRIG [L]	Edit Trigger ①
	DEDR 0-3	Rec Data		EDIT [H]	Edit (f)
	DEMO	Demodulation	İ	EE (H)	EE (H)
	DEMP	A/D Convertor Empahsis Control		EE CS	EEPROM Chip Select
	DEMP	De-Emphasis		EE R/B	EEPROM Read (H)/Busy (L)
	DFD 0-7	Encode Data In/Out Between Shaffling Memory		EEPROM	Electric Erasable Programable Read Only Memory
	DFD0-7	Encode Input/Output Signal for Shuffling Memory		EIS	Electric Image Stabilizer (DIS)
	DIBDCK	Bit Clock		EMP	A/D Convertor Emphasis Control
	DICLK	Digital Clock		ENAB	Enable
	DIDAT	Serial Data		ENV	Enverope
	DIDAT	Serial Data Durring Digital Audio In		EOB	End of Block
	DiF	Digital Interface		EP (H)	LP (H)
	DILRCK	L/R Clock		EP/LP [H]	LP (H)
	DILRCK	Serial Clock Durring Digital Audio In		EP/LP/SP	LP/SP
	DIMCK	Master Clock	l	EP/SS [H]	LP/Slow/Still/Stop (H)
	DIMCK	Mater Clock Durring Digital Audio In	l	EPROMCS	EPROM Chip Select
	DIO 1-8	Data In/Out		EQ	Equalizer
	DIOS	Data In/Out Select Control Signal		EXT S DATA	Serial Data for Edit
	DIOS	Select Signal for Digital In/Out		EXT SCK	Serial Clock for Edit
	DIS	Digital Image Stabilizer			
	DIS R/B	Digital Image Stabilizer Read (H)/Busy (L)	F	FACT MODE	Factry Mode (not used in the service)
	DIS R/B	DIS IC Rady/Busy		FB	Feed Back
	DIS/KAND	Digital Image Stabilizer/Sensitivity		FC	Saw Tooth Signal In
	DISCS	Dis Chip Select		FCK	Clock
	DISP	Display		FCO	Saw Tooth Signal Generator
	DL	Delay Line		FEND	Frame End Pulse
	DOBCK	Audio A/D Convertor Bit Clock		FF/REW [L]	First Forward/Rewind (L)
	DOCTL	Data Output Control Signal	l	FG1 IN	FG1 Pulse input
	DODAT	Serial Data (to D/A Converter)	ı	FG2 IN	FG2 Pulse Input
	DOLRCK	Audio A/D Converter LR Clock		FH2B	· ·
	DOLRCK	L/R Clock (to D/A Converter)	1	FIX OSD	FH/2 (15.625KHz / 2=7.8125KHz)
	DOMCK	Audio A/D Converter Master Clock	1	FLICK	Auto Tracking Off (H)
	DOMCK	Master Clock (to D/A Converter)	1	1	Flicker Output
	t .			FLY ERASE [H]	Flying Erase Head On (H)
	DQ 1-16	Memory Data		FM	Field Memory
	DRAM CAS	D-RAM Court Freeha		FM MUT [H]	FM Audio Mute (H)
	DRAM OE	D-RAM Out Enable	1	FM MUTE [H]	FM Audio Mute (H)
	DRAM RAS	D-RAM Read Address Strobe		FM0-7	Field Memory 0-7
	DREC	AV Delayed REC Start Pulse		FMCO0-3	Field Memory Chrominance Out 0-4
	DRK	Dark (LPF Switch for Auto Focus)		FMDIR	Focus Motor Direction
	DS1, 2	Double Sampling Pulse		FMOEM	Field Memory Enable
	DSF 0-7	Data In/Out for Shaffling Memory	1	FMOEO	Field Memory Enable

Г	INITIAL/LOGO	ABBREVIATIONS	Т	INITIAL/LOGO	ABBREVIATIONS
	FMT1-4	Focus Motor Terminal 1-4	$\vdash$	ITI	Insert & Track Information
	FMY00-07	Field Memory Luminance Out 0-7			
	FMYI0-07	Field Memory Luminance In 0-7	J	JPEG	Joint Photographic Image Cording Experts Group
ļ	FNO	F Value	ľ	0.20	Journal Hotographic image Column Experts Group
	FPS	Frame Refference Signal	k	KANDO	Digital Gain Up
	FR	Capstan Reverse High	"	KB	Carrier Balance
	FRP	Frame Refference Pulse		KEY IN	Key Scan
l	FRPSO	Frame Start Pulse		KND	Digital Gain Up
1	FUL. E [H]	Full Erase Head On (H)		KNEE	Luminance Compensate
l	FULL. E [H]	Full Erase Head On (H)		MALC	Luminarice Compensate
				LD	Load Pulse
G	G1, G2, G3	Gap 1, 2 and 3	┨	LEDCNT	LED Control
	GCA	Gain Control AMP		LI-BATT	Lithium Battery
	GCNT	Gain Control		LOAD	
	G-CNT	AGC Adjustment		LOAD F, R	Loading Direction (5- Farment (B. D.
l	GCTRL	Gain Control		LPF	Loading Direction (F: Forward / R: Reverse) Low Pass Filter
	GENE	Generator			
	GF	FG AMP Terminal		LRMONO	Monoral Audio (L + R)
	GSW	Ground for Switching Power	1	LSB	Least Significant Bit
		and the switching rower		LVL	LPF Switch for Auto Focus
Н	H/M/N	Hi-Fi / Mix / Normal	М	M GND	Motor GND
	H/N	Hi-Fi / Normal	"	M1-3	Motor Coil Terminal 1 to 3
	H. SYNC	Horizontal Sync		MA0-5	Microprocessor Address Data 0-5
	HAP	Horizontal Aperture		Mbps	Megahertz Bit Per Second
	HASW	Head AMP Switching Pulse		MD	Modulation
	нв	Hall Bias		MD0-7	Microprocessor Data 0-7
	HBR SET	High Brightness Set		MDT0-7	Microprocessor Data 0-7
	HBRST	High Brightness Set	1	ME (TAPE)	Metal Evaporated (Tape)
ļ	HCLR	High Clear		MES [H]	Mesecam (H)
ŀ	HCP	Shift Clock for Horizontal Drive		MESE [H]	Mesecam (A)
	HD	Horizontal Drive Pulse	1	MESE [L]	Mesecam (L)
	HDTV	High Definition TV	1	METER 5V	Level Meter 5V
	HEX	Hexadecimal	1	METER [L]	Level Meter (L)
	HG	Hall Gain		METER [R]	Level Meter (R)
	HID	Head Switching Pulse	1	METER. L/AVS	Level Meter (L)
	HLT	High Bright Signal	1	METER. R/AVS	Level Meter (R)
	HALL IN(+), (-)	Input Signal from Hall IC	1	MHSYNC	Monitor Horizontal Sync Signal
	HP	Headphone		MI/BI [L]	MIX (H)/Biligual
	HPF	High Pass Filter		MIC	Memory In Cassette
	HSE	Modulated Data Output		MIG	Meta In Gap
	HSP	Timing Pulse for Shaffling Memory		MIX N.R.D.	Non Rec Data Mix
	HSS	Horizontal Sync Signal		MOD.	Modulation
1	HSW	Head Switching Pulse		MODE SEL	Audio Mode Select
L				MODE SW	Audio Mode SW
T	I/F	Interface	1	MONO [H]	Monaural (H)
	1-2 C	Inter Integrated Circuit		MOUT	Mic Out
1	ID(H)	Wide Television (H)		MP (TAPE)	Metal Particle (Tape)
	IMP	Inter Microprocessor Protocol		MSB	
	IN SELA1	Input Select A1 Position		,,,,,,,,,	Most Signal Bit
1	IN SELA2	Input Select A2 Position	N	N/P	NTSC/DAL
	IN SELA3	Input Select A2 Position	"	NB1-3	NTSC/PAL
1	INS L/R [L]	Insert Lch/Rch (L)		-	Base for NPN Transistor
	INS. [H]	Insert (A)		NC NC1 2	No Connection
	INTER	Interval Recording	1	NC1-3	Corrector of NPN Transistor
l	INV	Inverter		NCLR	Power On Reset
1	IOU			NCP1	Clamp Pulse
İ	IOV	R-Y Analogue Signal Output		NDE	Non Liner De-Emphasis
	IOY	B-Y Analogue Signal Output		NE	Emitor of NPN Transistor
	IR	Y Analogue Signal Output		NLE	Non Liner Emphasis
	IRDET	Infrared Rays		NR	Noise Reduction
	IREF	Imfrared Ray Detection		NRD	Non Rec Data
	IRIS/SH	Current Adjustment Terminal		NRD BLK	Non Rec Data Blanking
	IRQ	Iris / Shutter Control		NRD CLK	No Rec Data Clock
L	1110	Interrupt Request		NRE	Read Enable Input (Low Active)

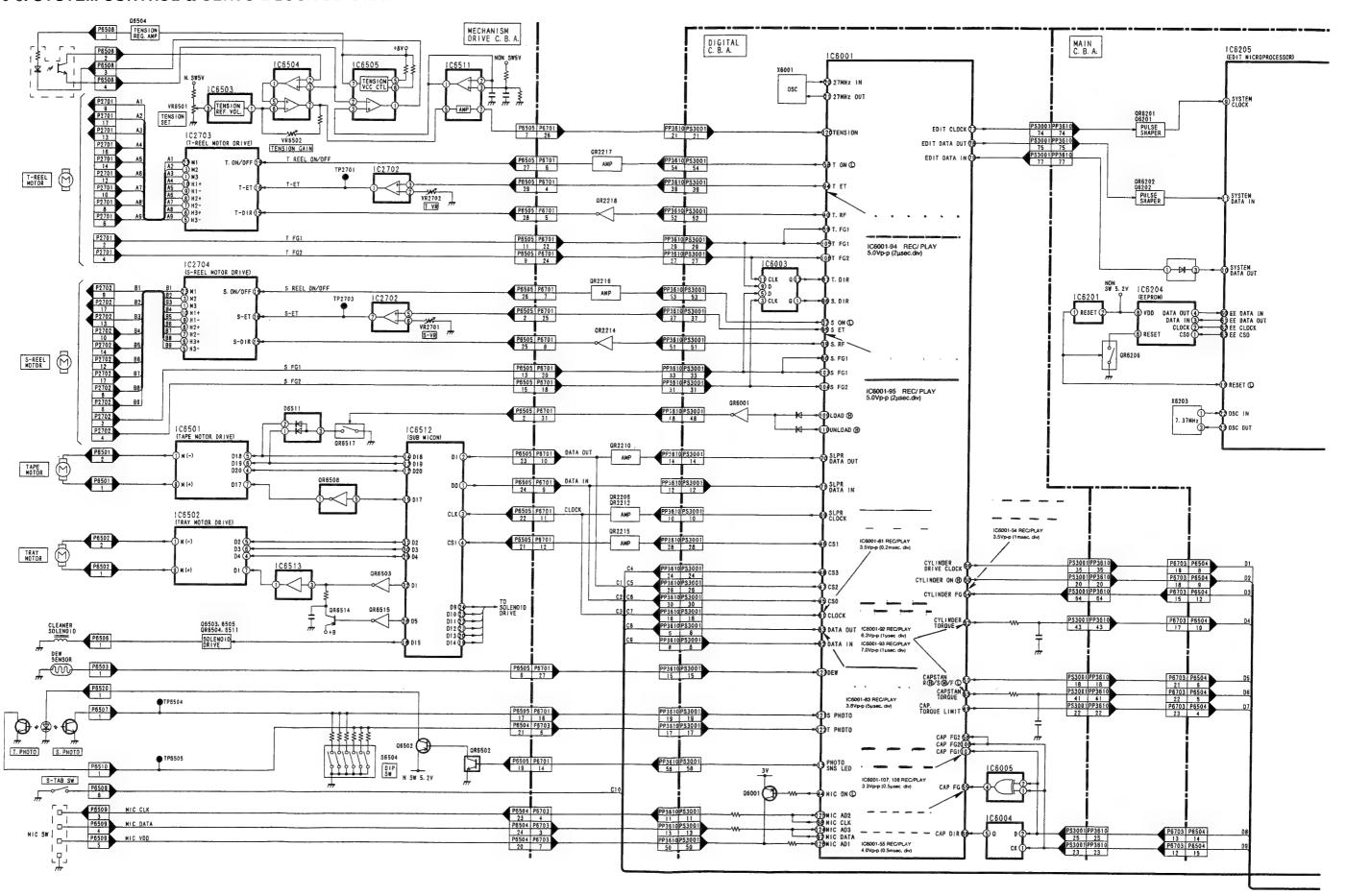
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	NWE	Write Enable (Low Active)		R-B	R Bias
				RCB	R Carrier Balance
0	OB	Optical Black		RE	Read Enable
	OBCNT	Optical Black Control		RE(F), (S)	Rotary Erase Head Transformer
	OBREF	Reference Voltage for Optical Black Control		REB	R Bias
	OCH	Control AGC Circuit		REC CC	Rec Current Control
	OE	Output Enable		REC CONT	Rec Current Control
	OFH	Horizontal Counted Down Clock Signal (Reference)		RECCTRL	Recording Control Pulse
	OFS	Offset		RECI	Rec Amp Switch
	OP	Operation AMP Output		RENCF	Lens Control (Forward)
	OSD	ON Screen Display		RENCR	Lens Control (Reverse)
	OVL	Overlap Pulse		RERASE	Rotary Erase Head
				RF. CHROMA	RF Chrominance Signal
Р	P. FAIL	Power Failure Detect		RGBIV1-2	1V Inverted Signal 1-2
	P. OFF (H)	Power Off (H)		RGO R/G OFF	Offset Voltage for AWT R
	P. OFF [L]	Power Off (L)		RSF	
	P SW	Power Switch		RST	Capstan Direction (Reverse / Stop / Forward)
	PB1-3	PNP Base 1-3		RSTB	Reset
	PBCTL	Play Back Control		RSTPWD	R Strobe
	PBCTL	Pre-Branking Control		· · · · · · · · ·	Reset Power Down Input
	PBH			RSTR	Reset Read
	PBLK	Head Amp Switch		RSTW	Reset Write
	PC1-3	Pre-Blanking (Pulse)		RT	Saw Tooth Terminal
		Corrector of PNP Transistor		RVCO	Resister for Oscillation
	PCBM	Carrier Balance		RW	Read Write
	PCH	Phase Compensator (Hall AMP)		RWAE	Read Write Enable
	PCI	Phase Compensator (Current)	_		
	PC0	Phase Compensator Out	S	SIN	Serial Data Input
	PCS	Switching Power Control		SOUT	Serial Data Output
	PCV	Phase Compensator (Voltage)		S-PHOTO	Supply Photo Transistor
	PE	Emitter of PNP Transistor		S-RL. PLS	Supply Reel Pulse
	PED	Pedestal		S. CLK	Serial Clock
	PEDECNT	Pedestal Control		S. CLK/AV	Serial Clock/AV
	PENO	Alarm (L)		S. DATA	Serial Data
	PFP	Pilot Frame Position		S. TAB (L)	Safety Tab SW ON ①
	PGA, B	Power Ground A, B		S/H	Sampling Hold
	PGC	Pulse Generator Comparator		S/PIN	SECAM/PAL/NTSC
	PGI	Pulse Generator Input		S/S	Start/Stop
	PGMM	Pulse Generator Monostable Multivibrator		SBD	Serial Data
	PG0	Output of Pulse Generator AMP		SBI	Serial Data Input
	PMODE	Select Signal for Normal / Wide Screen		SBO	Serial Data Output
	PON	Power On		SBT	Serial Clock
	POR	Power On Reset		SC IN	Serial Clock Input
	POSCOM	Common Position		SC OUT	Serial Clock Output
	PREAMP	Pre-AMP		SCAN0-5	Key Scan 0-5
	PREBLK	Pre-Blanking		SCK	Serial Clock
	PT	Protect for V Voltage		SCK SELECT	Serial Clock Select
	PWM	Pulse Width Modulation		SCR	Search
	РWМВ	Pulse Width Modulation Pulse		SCR, S.C.R.	Still Cue Review
	PWRFAIL	Power Failure Detect	l	SEG.	Seament
				SET	White Balance Set
Q	Q2H	Source Output Select	1	SH/IRIS	Shutter/Iris Control
_				SHIFT	
R	R CTL P	Recorded Control Pulse (+)	l	SI	Capasitor for Phase Shift
•	RCTLR	Recorded Control Pulse (-)		SIC	Serial Data Input
	R/B	Read/Busy		SIF	Shift In Clock Input
	R/L	Direction Control for Data Transmition			Sound Intermediate Frequency
				SIOC	Serial In/Out Control
	R/S/F	Reverse (H)/Stop (M)/Forward (L)		SMCE	Shaffling Memory Chip Enable
	RA	Recording AMP		SMRS	Shaffling Memory Read Strobe
	RA1	Rec AMP 1	1	SMWE	Shaffling Memory Write Enable
	RAC AC	Rec Audio Current		SMWS	Shaffling Memory Read Strobe
	RAD	Read Address Data		SNAP	Snap Shot
	RAE	Read Address Enable		SNS LED	Sensor LED
	RB	Read Busy	1	so	Serial Data Output

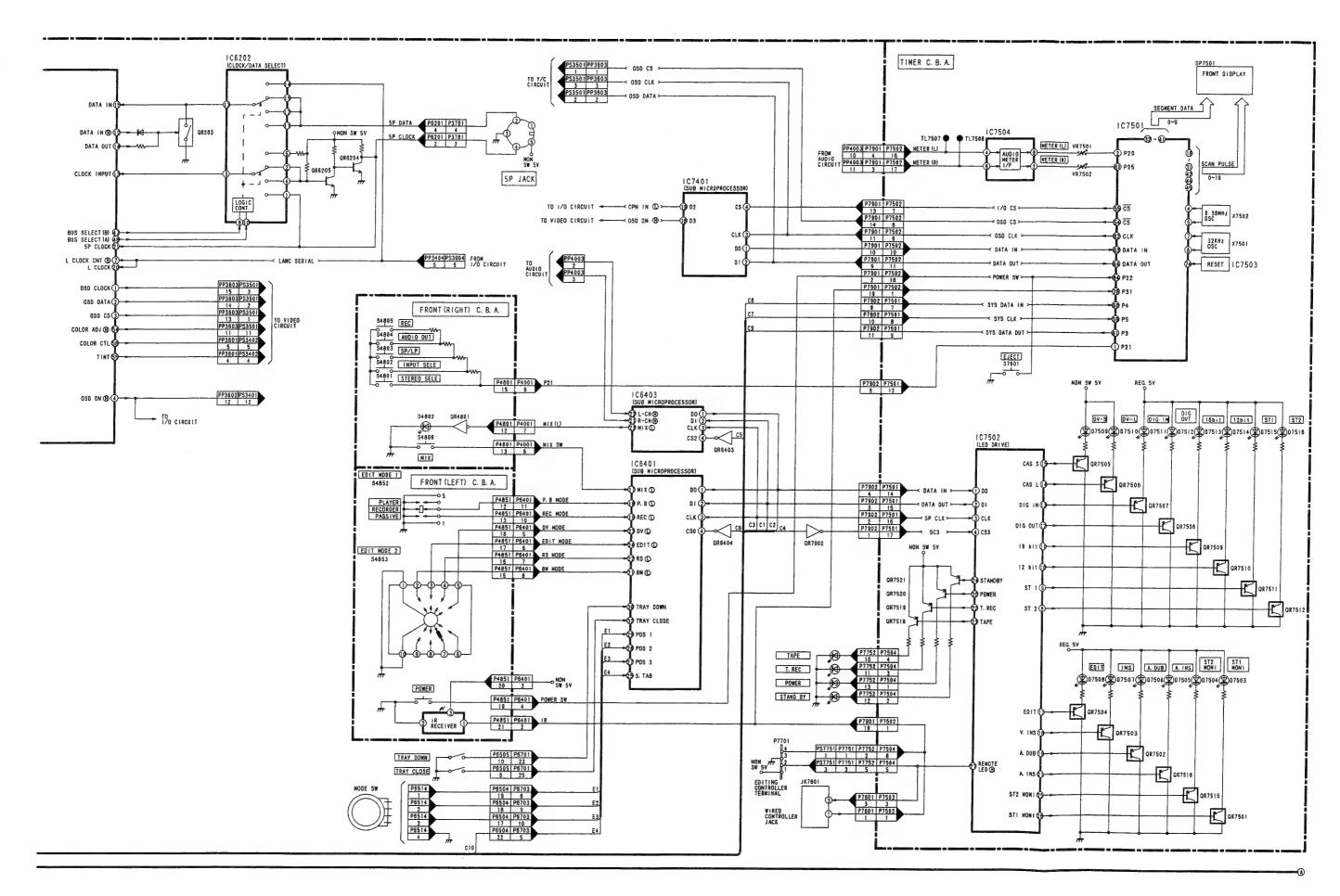
<b>L</b>	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	SPA	ATF Smapling Pulse		VDDX	X Drive Power for Colour LCD
	SPEN	8 Bit Shift Register Enable		VDDXY	XY Drive Power for Colour LCD
	SPK	Speaker		VDDY	Y Drive Power for Colour LCD
	SPO	Reset for Switcing Power		VDREC	Video Delayed Rec
	SPST	8 Bit Shift Register Strobe	- 1	Vgg	Voltage for Gate IC
	SREELP	Supply Reel Pulse		Vgl	Gate off Voltage
	SRT	Start		VID	
	SSA	Start Sync block Area			Video Signal Out
1	SSS [L]	Slow/Still/Stop		VIN	Video In
	SSW	Select Signal for Low Pass Filter		VITC	Vertical Interval Time Code
	ST5V	_		VITERBI	One of Signal Detection Method
1	STAB	Safety Tab 5V		VL	Low Voltage
		Safety Tab Switch		VLC	Variable Length Cording
	STB	Stand by Signal		VLOCKP	Artificial Sync Pulse
	STB	Strobe		VLP	Artificial Sync Pulse
	SWB	Switching Pre-Drive Pulse	- 1	VM	Motor Voltage
	SYL EC	Cylinder Torque Control		VMD	Velocity Mode Data
	SYL FG	Cylinder FG		VMD1-3	Electric Shutter Mode
oxdot				VMODE	NTSC/PAL Select Switch
Т	Т-РНОТО	Take-Up Photo Transistor		VMVH	VH Filter Switching
	T-RL. PLS	Take-Up Reel Pulse		VORP	Video Overlap
	T. BUSCLK	Timer Bus Clock		VRB	Voltage Refference Bottom
	T. BUSLSN	Timer Bus Listen		VRBS	Voltage Refference Bottom Output
	T. BUSTLK	Timer Bus Talk		VREFH	Refference Voltage High Side
Ì	TBC	Time Base Conntrol		VREFL	Refference Voltage Low Side
1	TFT	Thim Film Transistor		VRI	Refference Voltage Input
	тн	Thermostat for Battery		VRO	Refference Voltage Output
	TI	Test Mode Select		VRT	
	TL	Torque Limit		VRTS	Voltage Refference Top
	TM	Sub Code		VS	Voltage Refference Top Output
l	TMD	Sub Code Data		VSS	Switching Comparator
ļ	TRE	Tracking Error Signal		VSS	Vertical Sync Signal
1	TREEL(P)	Take-up Reel (Pulse)	w	11101	
	TRFIX	Tracking Fix	l w	W/N	Mode Select for Window Mode
	TRIWAVE			W/N	Wide / Normal
		Tracking Wave		WAD	Write Address Enable
1	TRP	Tracking Position		WAE	Write Address Enable
	TRP	Trap		WAERAE	Write Address Enable
	TRP TSR	Trap Head Switching Refference		WAERAE WARI	Write Address Enable Interrupt
	TRP TSR TST	Trap Head Switching Refference Time Scale Transfer		WAERAE WARI WB	Write Address Enable Interrupt White Balance
	TRP TSR TST TU. AUDIO	Trap Head Switching Refference Time Scale Transfer Tuner Audio		WAERAE WARI	Write Address Enable Interrupt White Balance Write Enable
	TRP TSR TST TU. AUDIO TU. GND	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND		WAERAE WARI WB WE WEM	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input		WAERAE WARI WB WE WEM WSB	Write Address Enable Interrupt White Balance Write Enable
	TRP TSR TST TU. AUDIO TU. GND	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND		WAERAE WARI WB WE WEM	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video		WAERAE WARI WB WE WEM WSB	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video R-Y/B-Y Select Signal		WAERAE WARI WB WE WEM WSB WSR WTV	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video R-Y/B-Y Select Signal Un-Loading	x	WAERAE WARI WB WE WEM WSB WSR WTV	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable	x	WAERAE WARI WB WE WEM WSB WSR WTV	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video R-Y/B-Y Select Signal Un-Loading	x	WAERAE WARI WB WE WEM WSB WSR WTV	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable	x	WAERAE WARI WB WE WEM WSB WSR WTV	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable	X	WAERAE WARI WB WE WEM WSB WSR WTV	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset
U	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL V. REF	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL V. REF V. EE [H]	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ①		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL V. REF V. EE [H] V. EE [L]	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE (H) VIdeo EE (L) Reference Oscillater		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE (H) VIdeo EE (L) Reference Oscillater V. CCD Drive Pulse		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO VCP	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator Shift Clock Output for Vertical Drive		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO VCP VCTLD	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE (I) VIdeo EE (I) Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator Shift Clock Output for Vertical Drive Video Control		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TRP TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO VCP	Trap Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator Shift Clock Output for Vertical Drive		WAERAE WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Write Address Enable Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction

#### 3-2. OVERALL BLOCK DIAGRAM

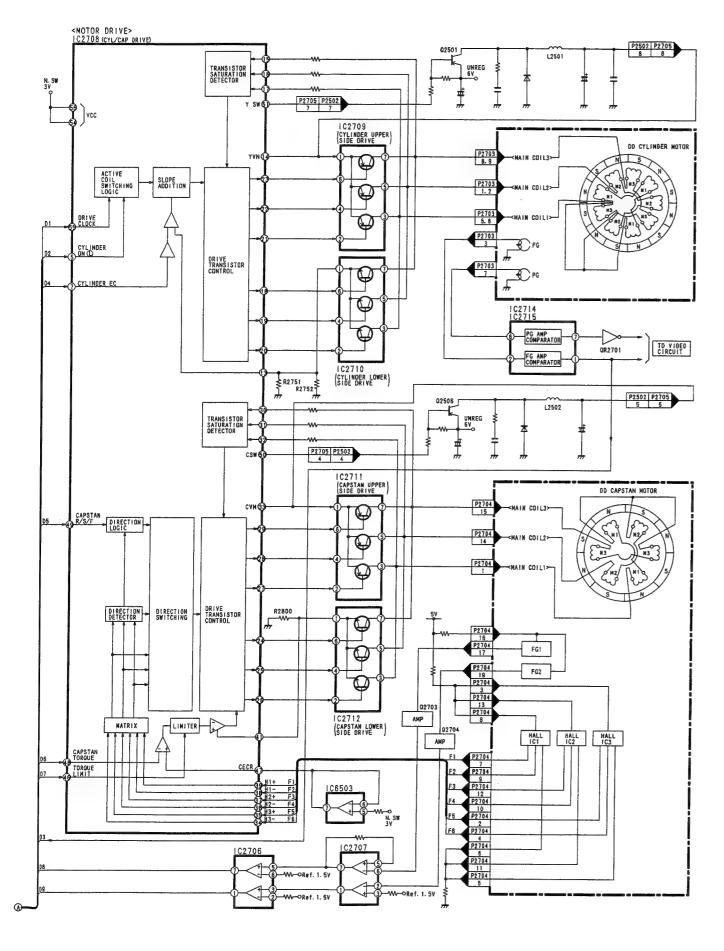


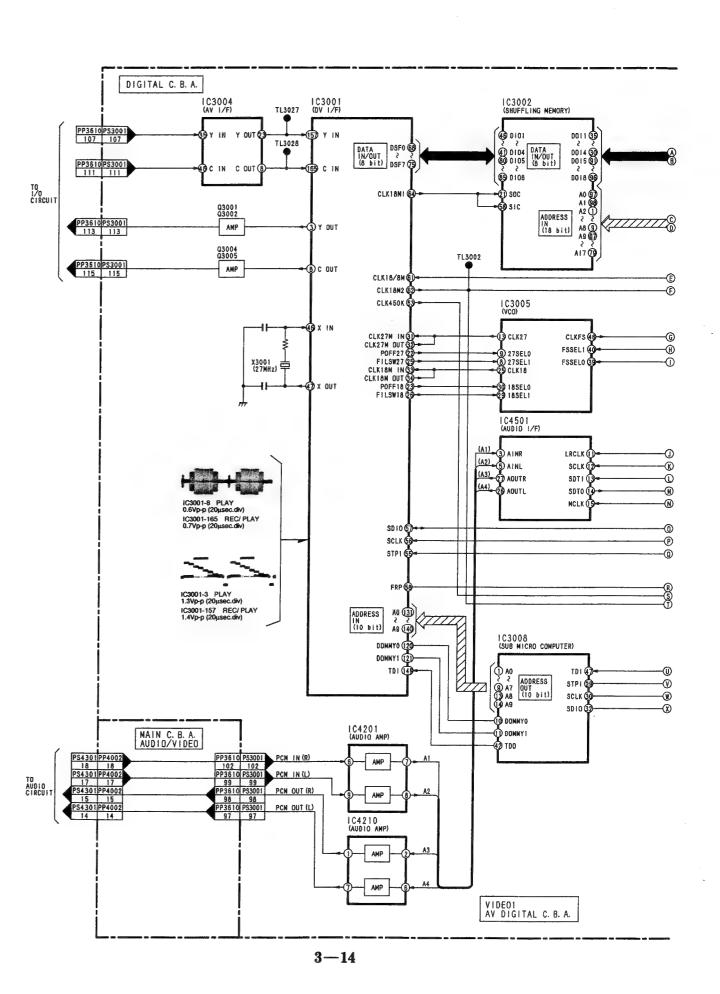
## 3-3. SYSTEM CONTROL & SERVO BLOCK DIAGRAM



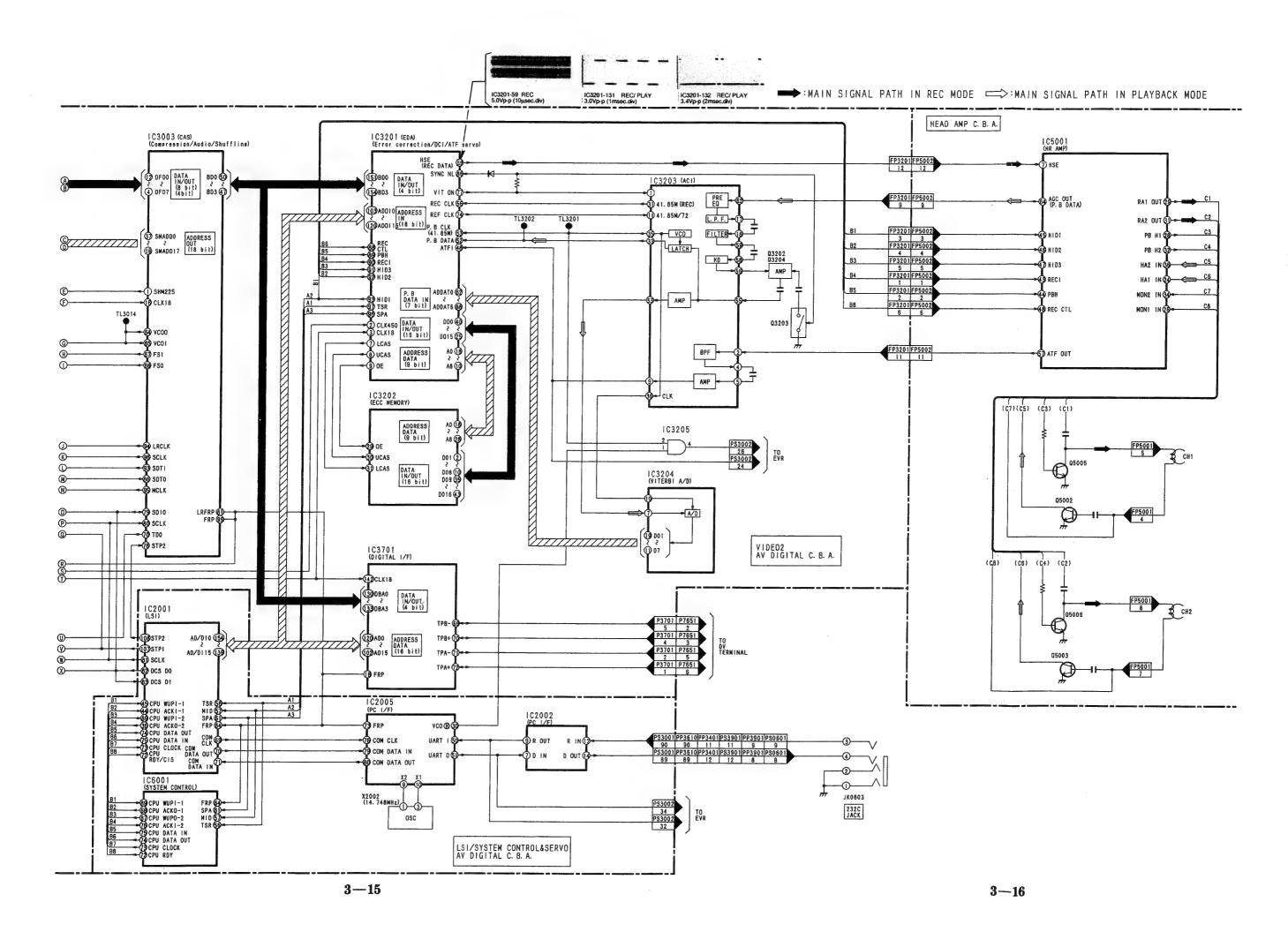


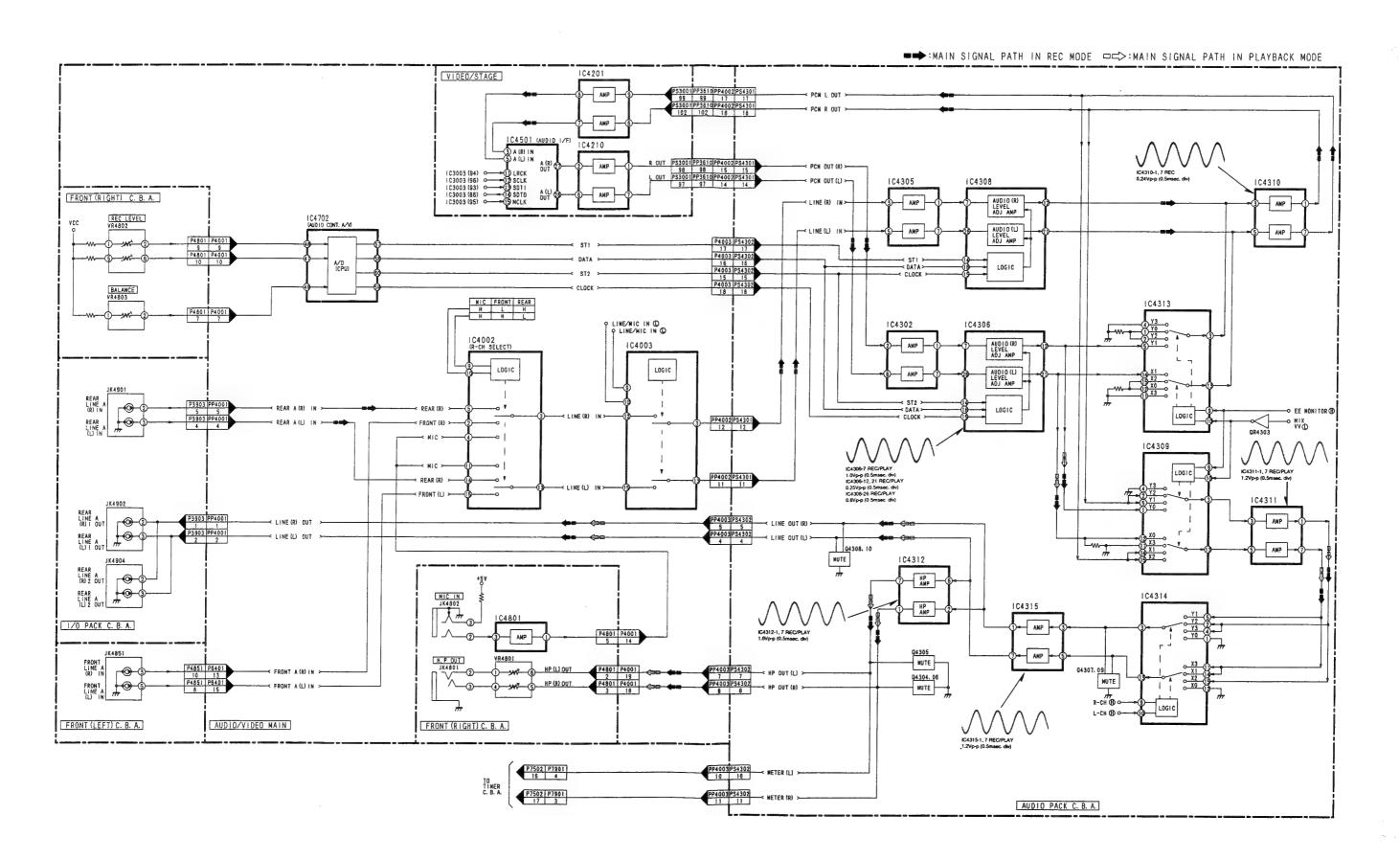
#### 3-4. VIDEO BLOCK DIAGRAM



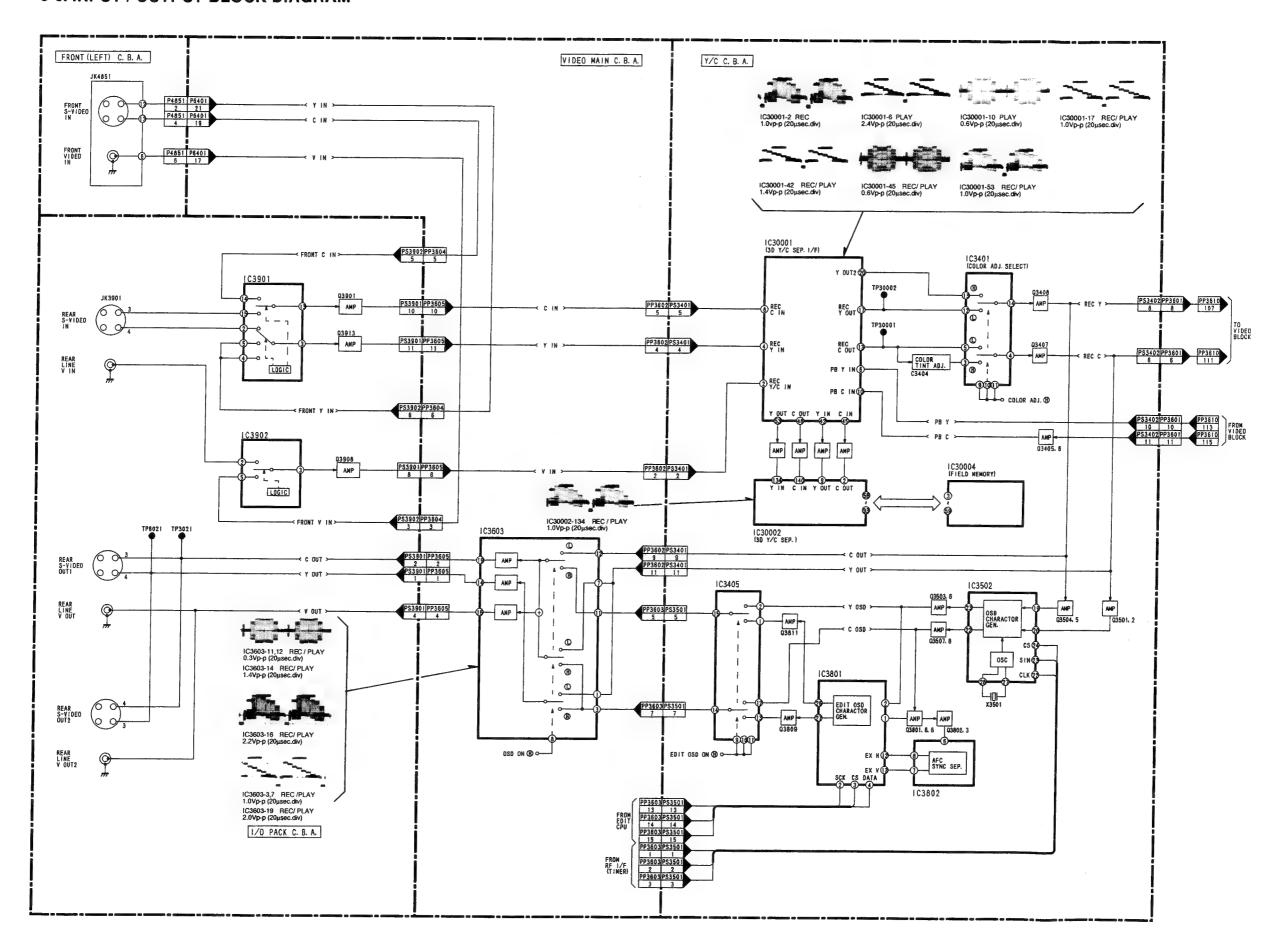


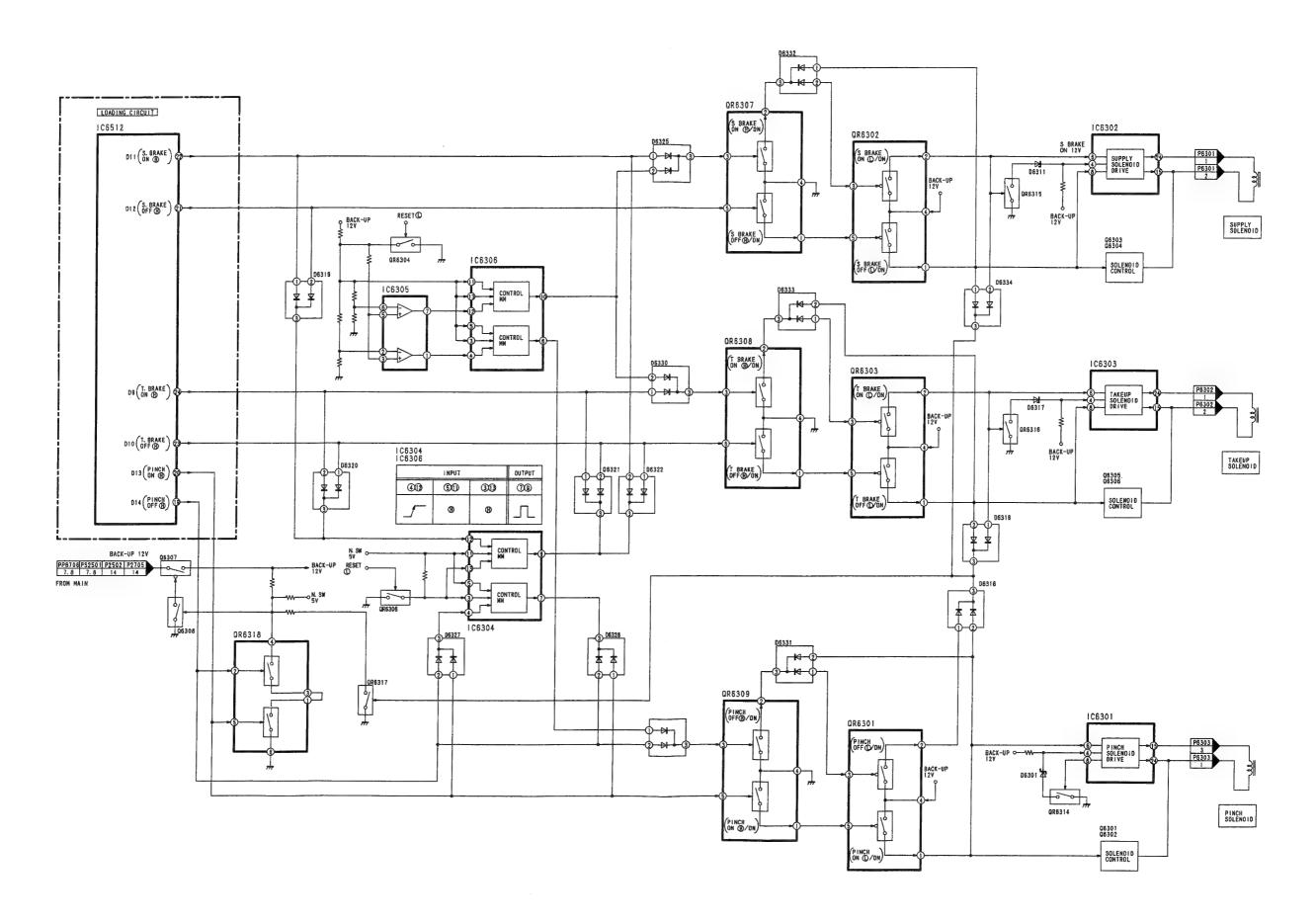
3 - 13

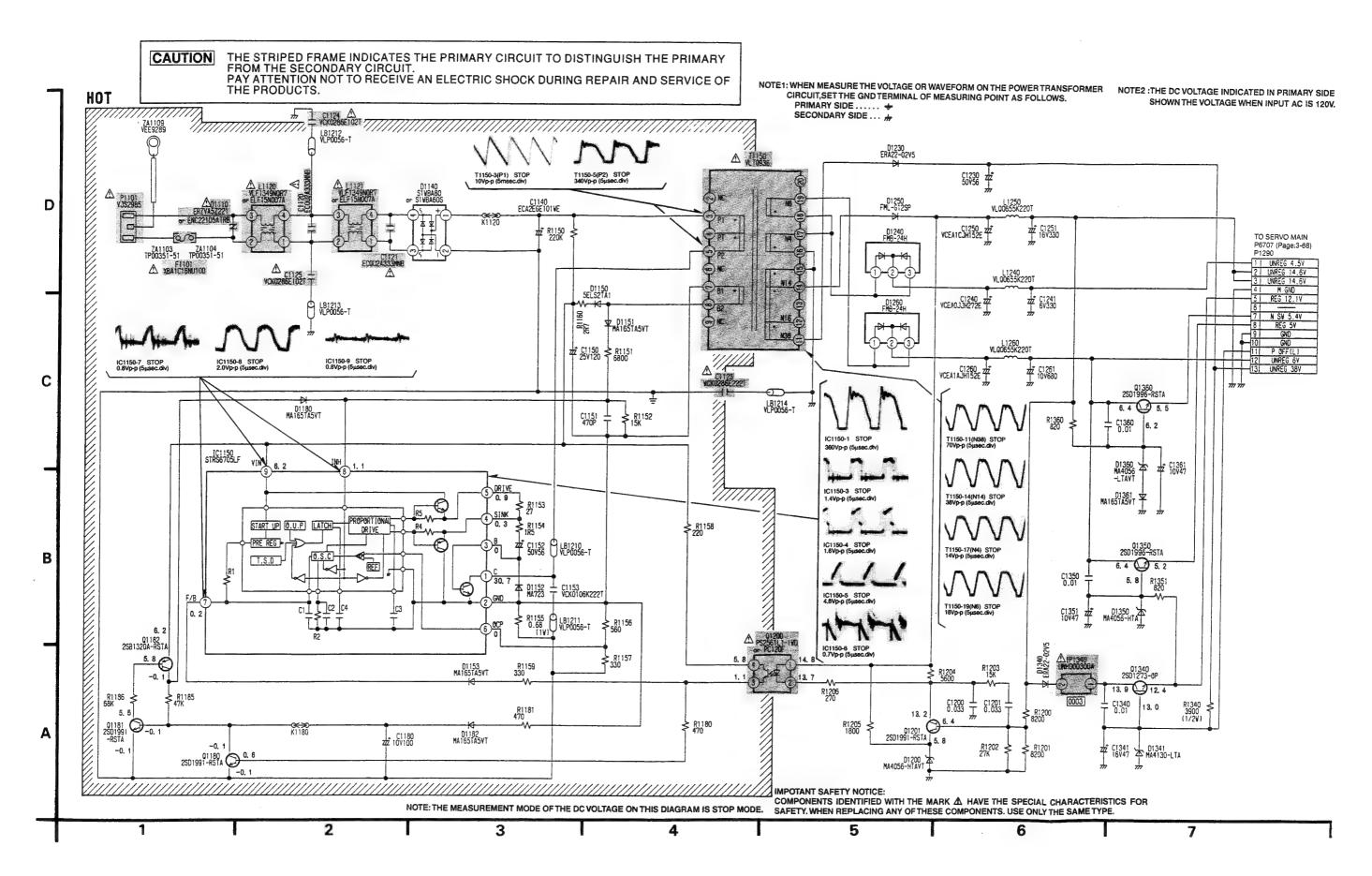




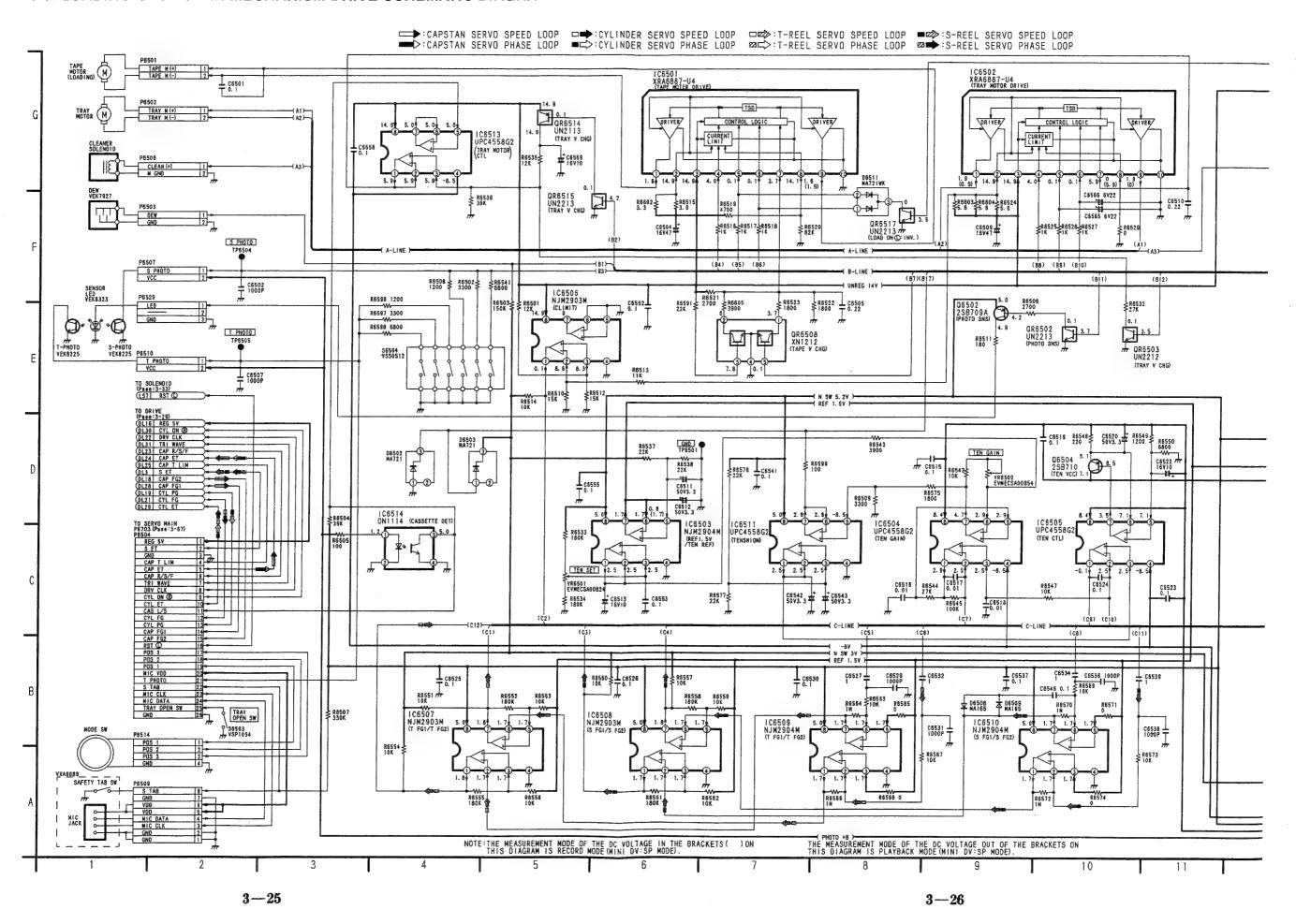
# 3-6. INPUT / OUTPUT BLOCK DIAGRAM



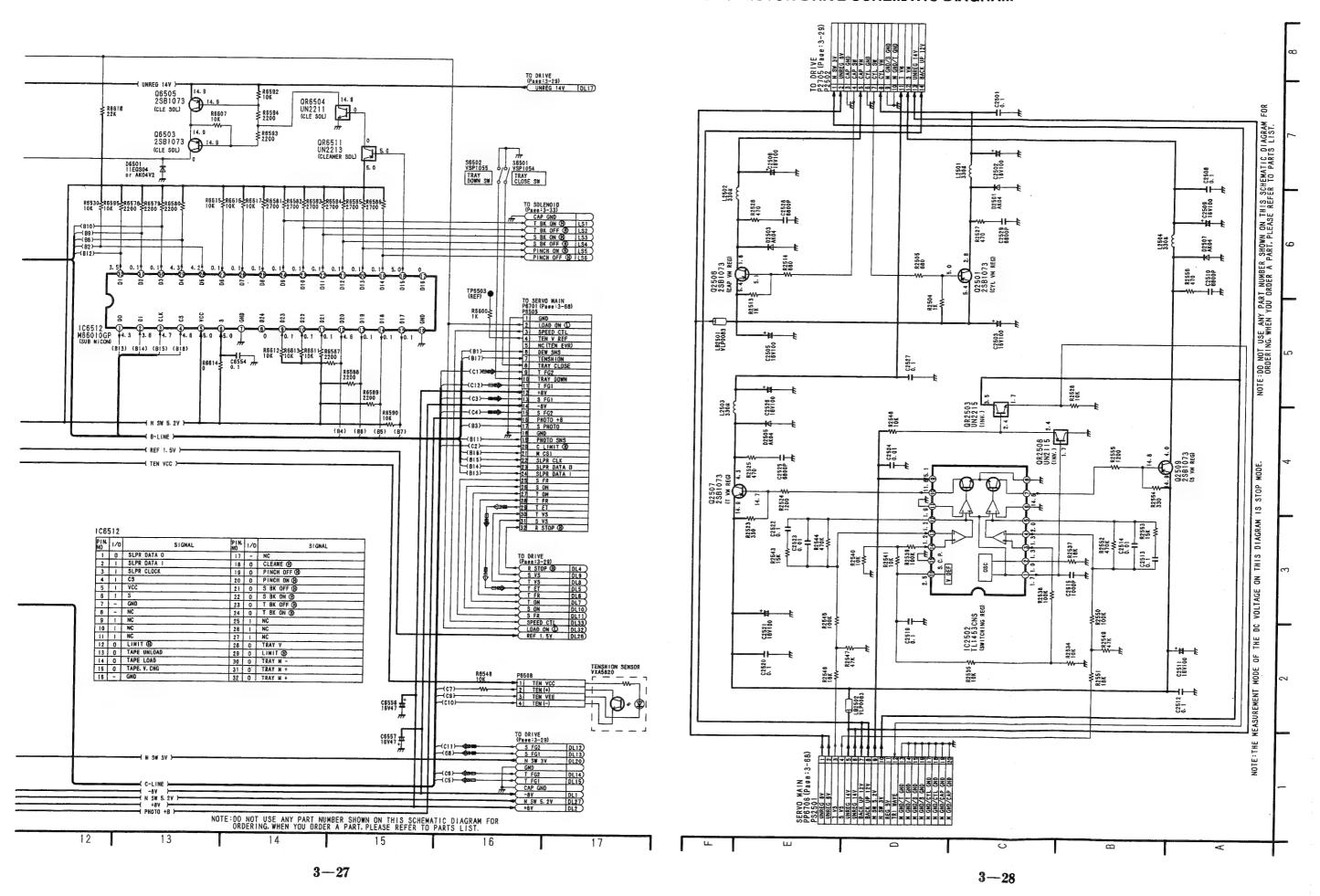




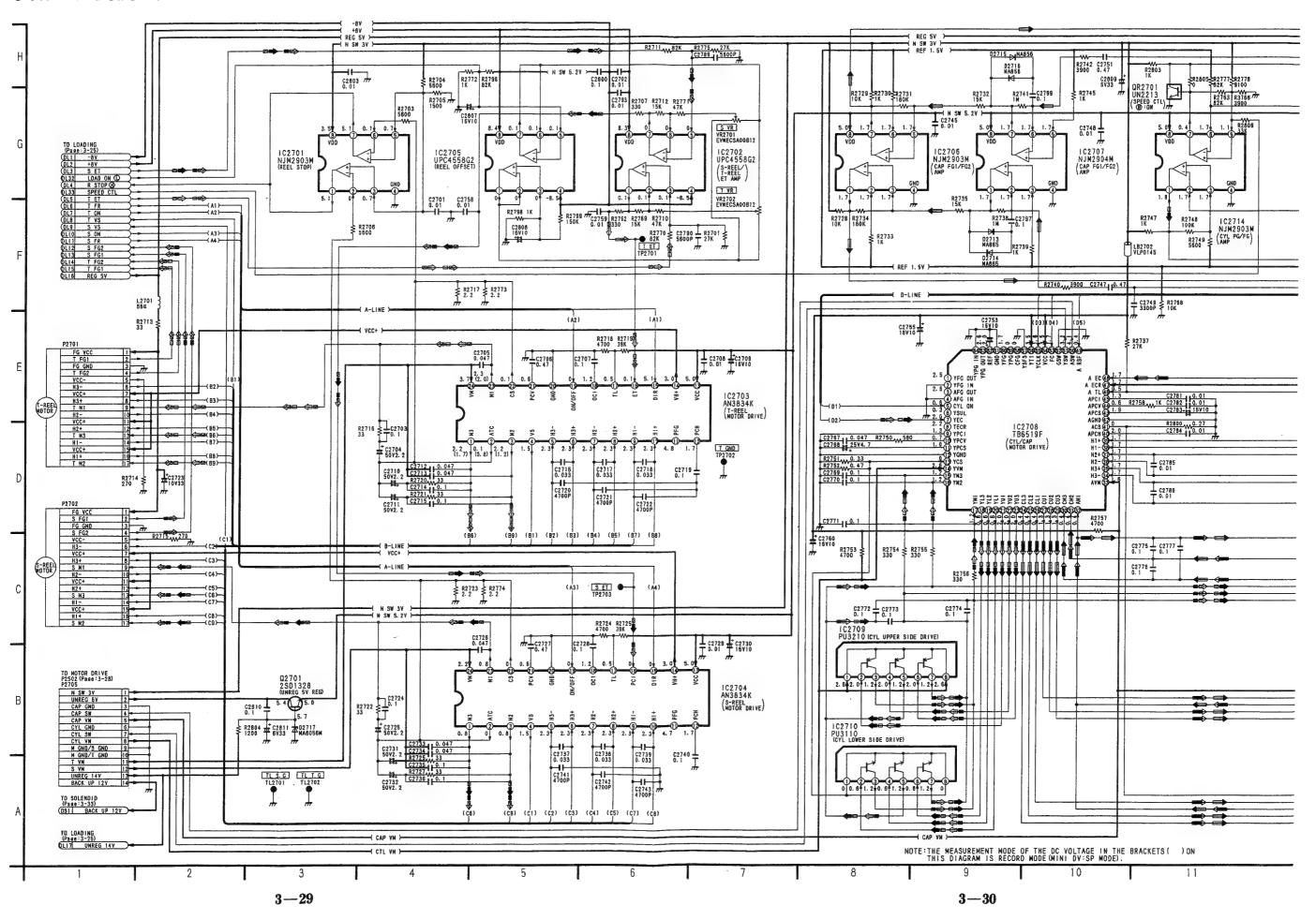
# 3-9. LOADING SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM

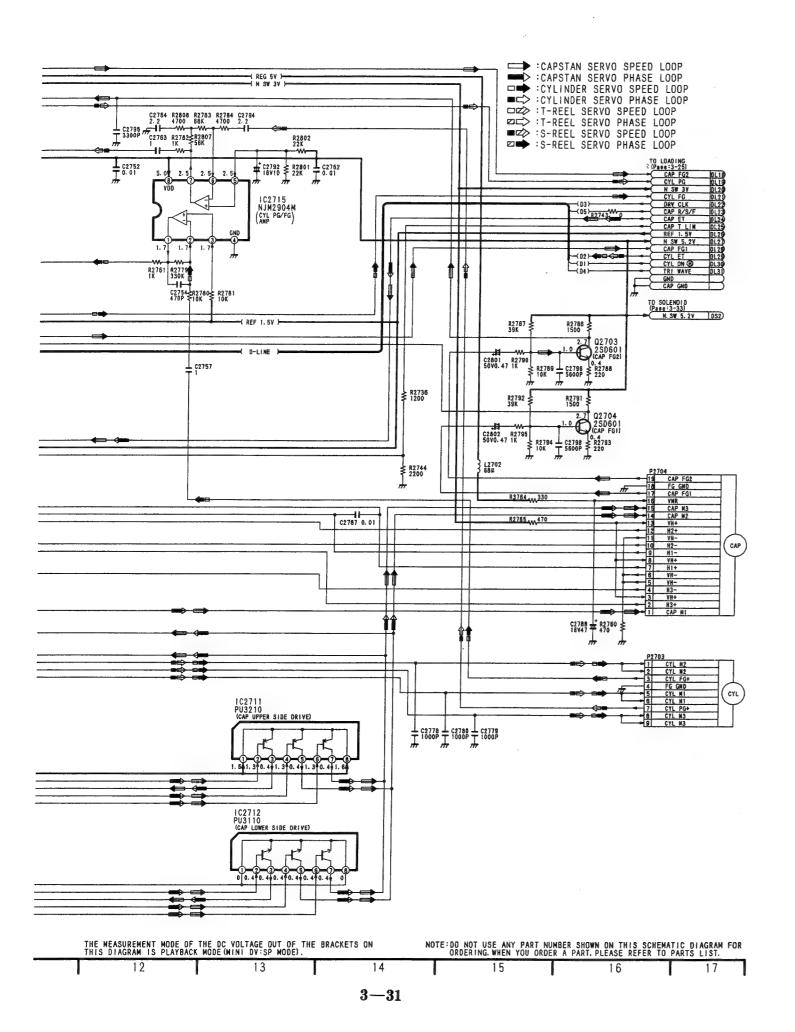


## 3-10. MOTOR DRIVE SCHEMATIC DIAGRAM

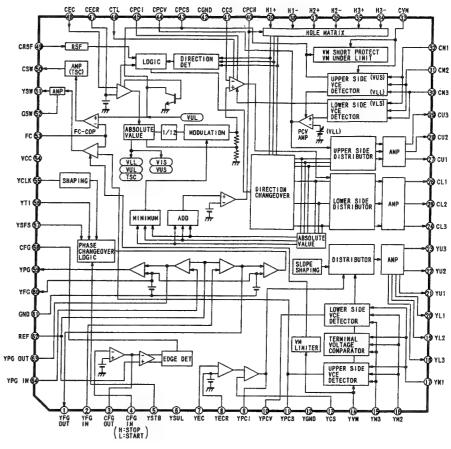


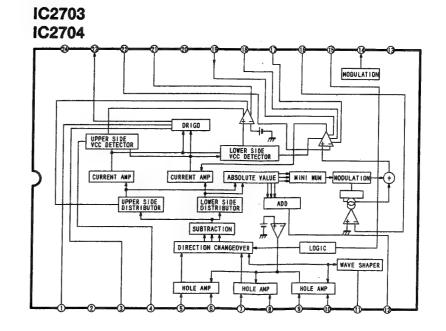
## 3-11. DRIVE SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM





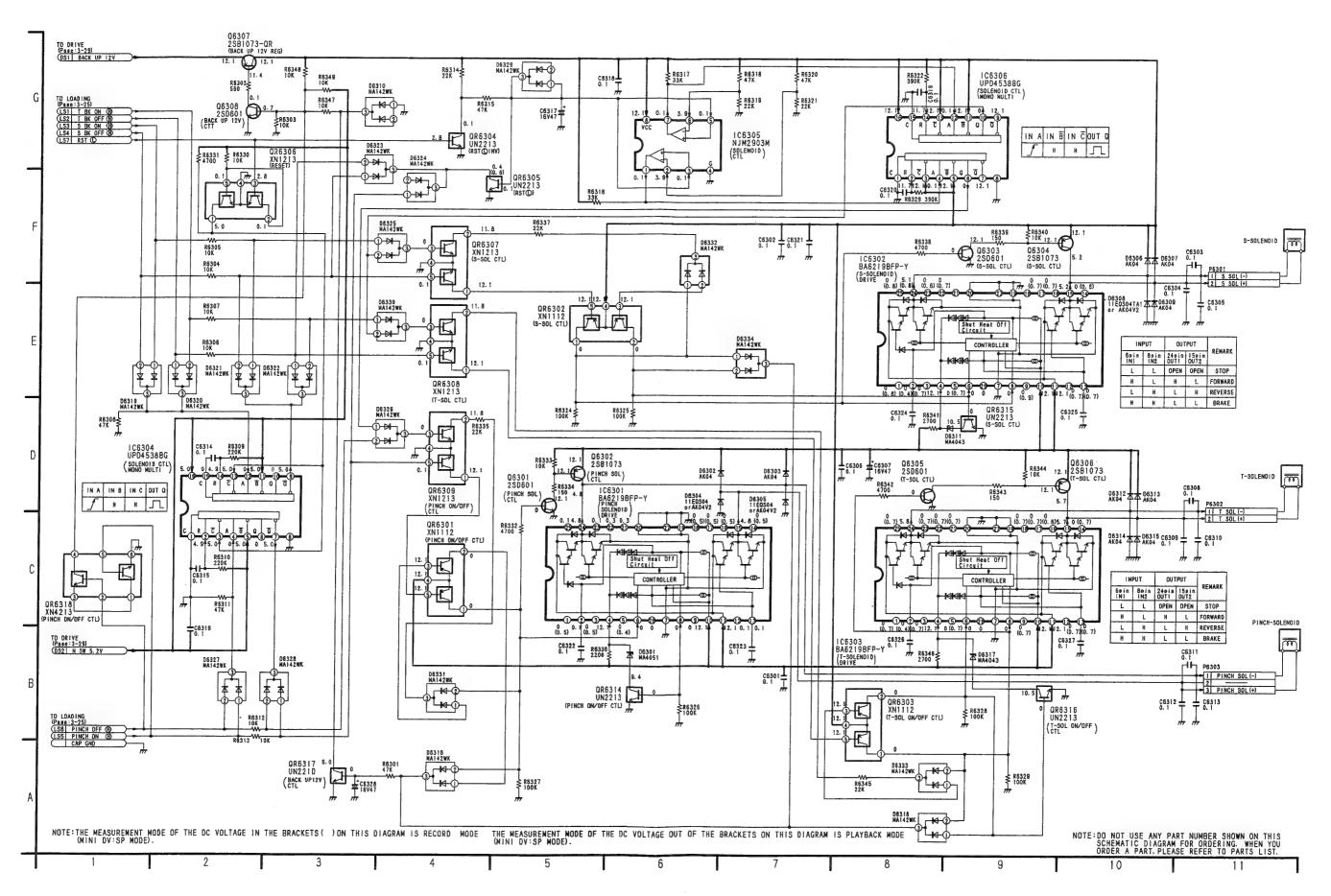
# IC2708



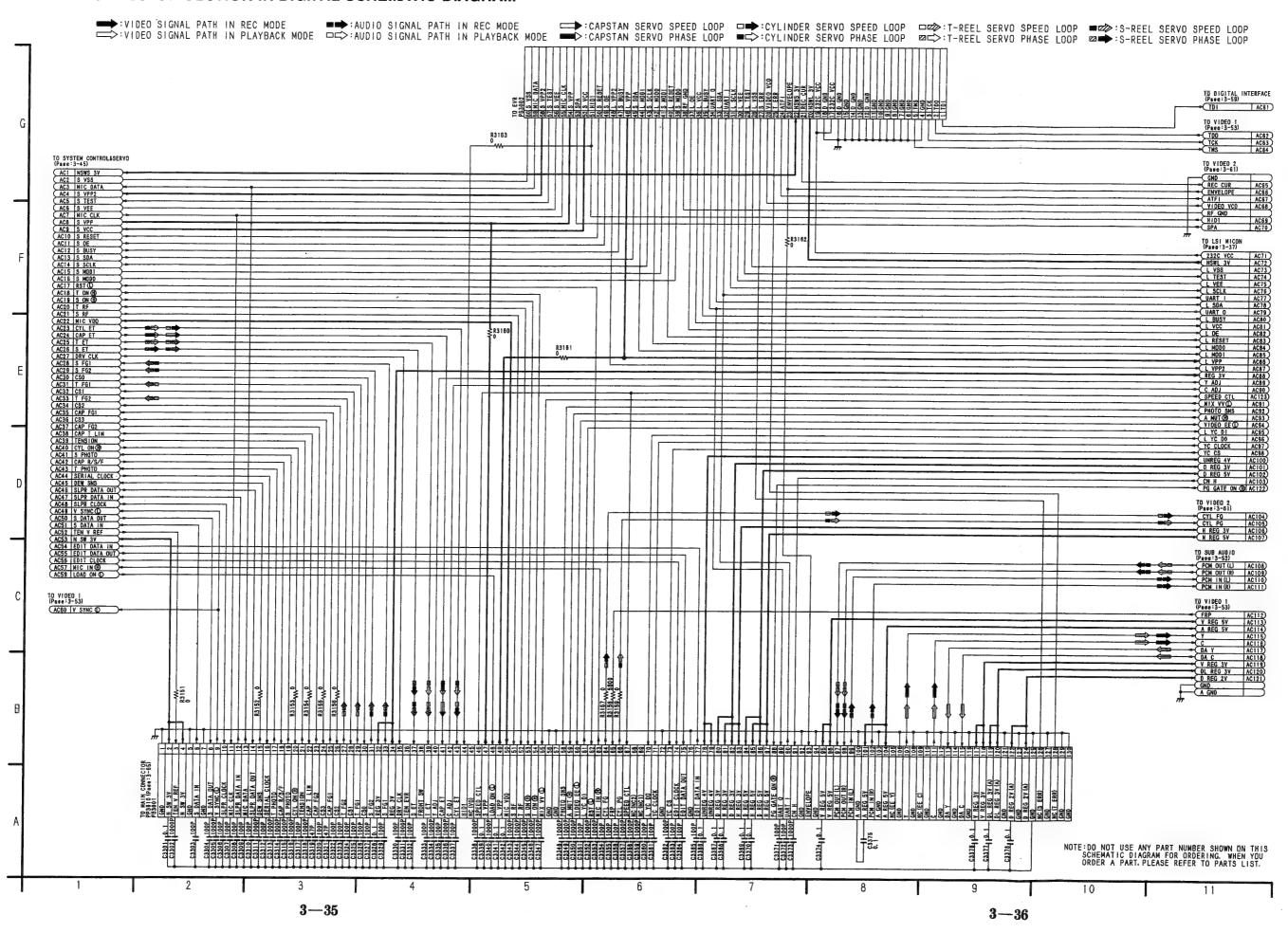


3-32

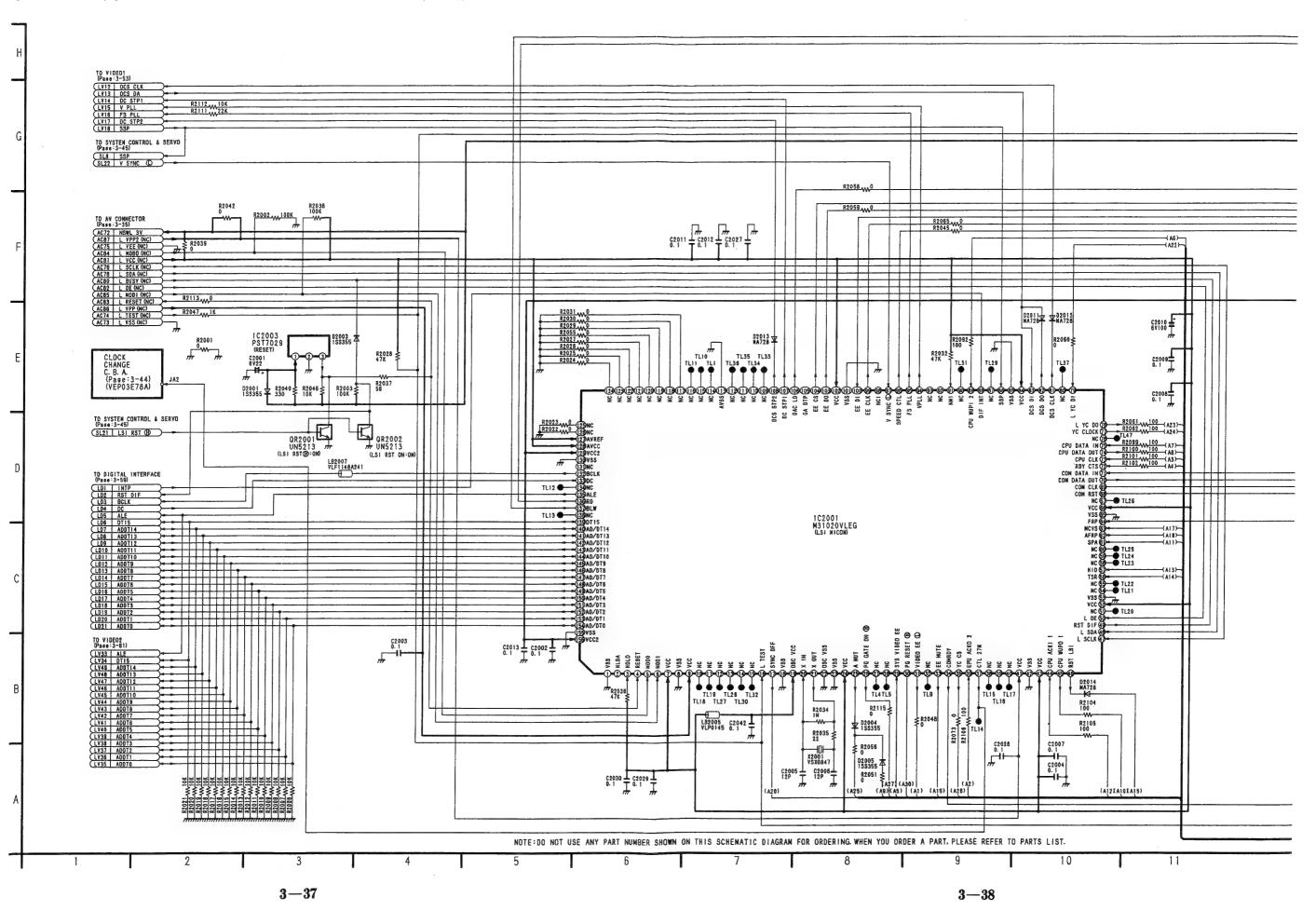
## 3-12. SOLENOID SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM



#### 3-13. AV CONNECTOR SECTION IN DIGITAL SCHEMATIC DIAGRAM

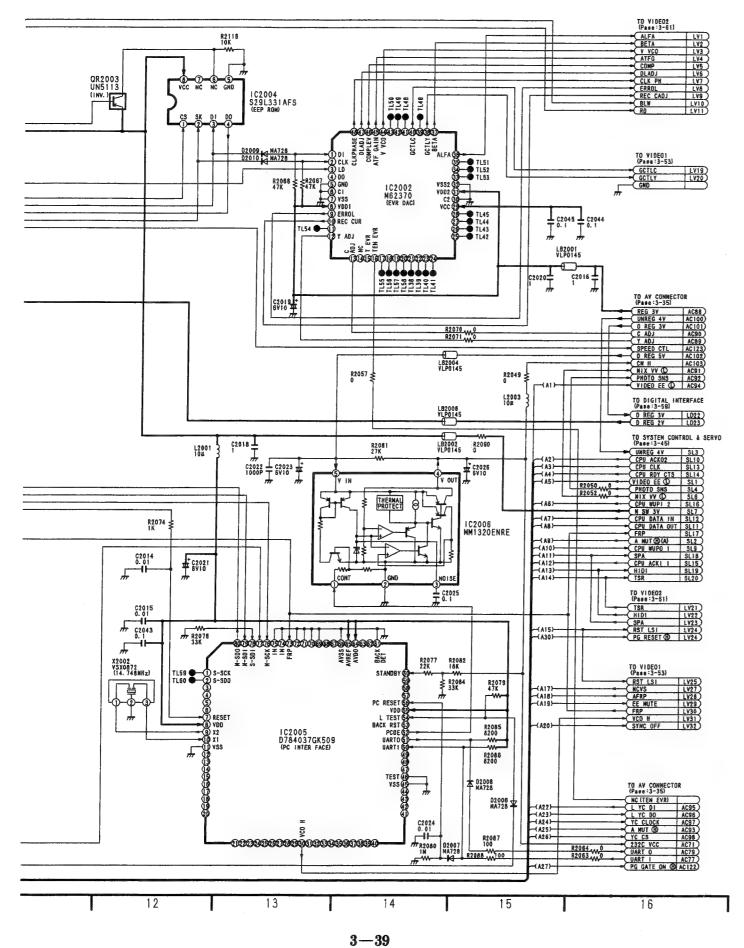


## 3-14. LSI MICON SECTION IN DIGITAL SCHEMATIC DIAGRAM



# IC2001(M31020VLEG): LSI MICON

PIN.	SIGNAL	1/0	EXPLANATION	PIN.	SIGNAL	1/0	EXPLANATION
NO.	NAME	"	EXPLANATION	NO.	NAME		EXPLANATION
1	VSS	<u> </u>		60	NC	1	
3	HLDA	0	Ext-Bus Hold Acknowlede/BST TCK (CLK)	61	SPA	<u> </u>	SPA
4	HOLD	1	Ext-Bus Hold Request Reset	62	AFRP		AFRP MCVS
5	MOD0	+	Single Chip Mode = Vss Vss	64	MCVS		
6	MOD1	+	Memory Extend Mode = Vss Vcc	65	VSS	<del>                                     </del>	Frame reference pulse
7	VCC	<del>                                     </del>	Welflory Exterio Mode = VSS VCC	66	VCC	-	
8	VSS	<del> </del>		67	NC	0	
9	VCC	+=		68	COM RST	0	RS232C RESET
10	NC	0	****	69	COM CLK	Ť	RS232C CLK IN
11	NC	0		70	COM DATA OUT	0	RS232C SERIAL-DATA OUT
12	NC	0	_	71	COM DATA IN	T	RS232C SERIAL-DATA IN
13	NC	0	_	72	RDY CTS	1	from SYSCON ACK
14	NC	0	_	73	CPU CLK	0	to SYSCON CLK
15	NC	0	_	74	CPU DATA OUT	0	to SYSCON DATA
16	L TEST	1	EVR TEST MODE (L)	75	CPU DATA IN	T	from SYSCON DATA
17	SYNC OFF	0	L: Sync Gate Off H: Sync Gate On	76	NC	0	
18	VSS			77	YC CLOCK	0	YC MICON Serial Clook
19	OSC VCC	_		78	L YC DO	0	YC MICON Data out
20	X IN	1	27MHz	79	L YC DI	1	YC MICON Data in
21	X OUT	0	27MHz	80	NC	0	_
22	OSC VSS	_		81	DSC CLK	0	CAS & DVIO Serial Clock
23	VSS	_		82	DSC D0	0	CAS & DVIO Serial Data Out
24	VCC			83	DSC D1	1	CAS & DVIO Serial Data In
25	A MUT	0	AUDIO MUTE	84	VCC		
26	PG GATE ON®	0	PG GATE Control	85	VSS	_	
27	NC	0		86	SSP	!	Sector Start Pulse
28	NC NIDEO FF	0	- SVECON FEAR	87	NC DIF WIT	0	Birth Charles
29 30	SYS VIDEO EE	1	SYSCON EE/VV PG RESET	88	DIF INT		Digital Interface IF
31	PG RESET® VIDEO EE©	0	I/O Pack EE/VV Select	89 90	CPU WUPI 2 NC	0	
32	NC NC	0		91	NMI		Pull-up
33	EE MUTE	0	EE MUTE	92	NC		— —
34	COMRDY	0	232C MICON RDY	93	NC	0	
35	YC CS	0	YC MICON CS	94	V PLL	0	Video PLL
36	CPU ACK 0-2	0	_	95	FS PLL	<del>-</del>	FS PLL (ATF ERR for Linear arrengement)
37	CTL 27M	0	27MHz Freg. Select	96	NC3(SPEED C TL)	Ť	CYL PG Amp Control (FF/REW 100 Times or more)
38	NC	0	_	97	NC2(VSYNC)	Ť	REC V Countermeasure
39	NC	0		98	NC1	Ö	Spare
40	NC	0	_	99	EE CLK	0	EEprom & DAC Clock
41	VCC	_		100	EE DI	ı	EEprom & DAC Data In
42	VSS	_		101	VSS	_	
43	VCC	_		102	VCC		
44	CPU ACKI-1		from SYSCON ACK	103	EE DO	0	EEprom & DAC Data Out
45	CPU WUPO-1	0	to SYSCON REQ	104	EE CS	0	EEprom Chip Select
46	RST LSI	0	DVIO, CAS, EDA Reset	105	GA STP	0	L: Active H: Not Active
47	L SCKL	_	for FLASH CLK	106	DAC LD	0	DAC Load
48	L SDA	-	for FLASH DATA IN	107	DCS STP1	0	DVIO Serial Strobe Pulse
49	RST DIF	0	DIF LSI Reset	108	DCS STP2	0	CAS Serial Strobe Pulse
50	L 0E	1	for FLASH WRITE 0E	109	NC	0	
51	NC	0		110	NC	0	
52	VCC	_		111	NC	0	_
53	VSS	_		112	NC	0	
54	NC	0	_	113	AVSS		
55	NC	0		114	NC.	1	Connect to GND (0Ω)
56	TSR		Track Start Refference	115	NC	ı	Connect to GND (0 $\Omega$ )
57	HID		HSW	116	NC		Connect to GND (0Ω)
==					N/O		(3
58 59	NC NC	9	=	117	NC NC	-	Connect to GND (0 $\Omega$ ) Connect to GND (0 $\Omega$ )



PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
119	NC	ı	Connect to GND (0Ω)	138	NC	0	_
120	NC	1	Connect to GND (0Ω)	139	DT15	1/0	EXT-Memory Address/Data Bus
121	NC	ı	Connect to GND (0Ω)	140	ADDT14	1/0	EXT-Memory Address/Data Bus
122	NC	1	Connect to GND (0Ω)	141	ADDT13	I/O	EXT-Memory Address/Data Bus
123	NC	1	Connect to GND (0Ω)	142	ADDT12	I/O	EXT-Memory Address/Data Bus
124	NC	1	Connect to GND (0Ω)	143	ADDT11	1/0	EXT-Memory Address/Data Bus
125	NC	i	Connect to GND (0Ω)	144	ADDT10	1/0	EXT-Memory Address/Data Bus
126	NC	I	Connect to GND (0Ω)	145	ADDT9	1/0	EXT-Memory Address/Data Bus
127	AVREF	_		146	ADDT8	1/0	EXT-Memory Address/Data Bus
128	AVCC			147	ADDT7	1/0	EXT-Memory Address/Data Bus
129	VCC2	_		148	ADDT6	1/0	EXT-Memory Address/Data Bus
130	VSS	_		149	ADDT5	1/0	EXT-Memory Address/Data Bus
131	NC	0		150	ADDT4	1/Ò	EXT-Memory Address/Data Bus
132	BCLK	0		151	ADDT3	1/0	EXT-Memory Address/Data Bus
133	DC	_	Data Complete for Ext-Momory mode	152	ADDT2	I/O	EXT-Memory Address/Data Bus
134	NC	0	-	153	ADDT1	I/O	EXT-Memory Address/Data Bus
135	ALE	0	Address Latch Enable for Ext-Memory mode	154	ADDT0	1/0	EXT-Memory Address/Data Bus
136	RD	0	Read Strobe for Ext-Memory mode	155	VSS	_	
137	BLW	0	Byte Low Write for Ext-Memory mode	156	VCC2	_	

# IC2005 (D784037GK509): RS-232C INTERFACE MICROCOMPUTER

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
1	EVR SCK	0	Serial Clock Signal for SYNC Serial	46	TEST	_	GND
'	EVH SCK		Communication (To Camera Micom)	47	NC	0	NC
2	EVR SBO	0	Serial Data Signal for SYNC Serial	48	NC	0	NC
	EVA 3BO		Communication (To Camera Micom)	49	NC		NC
5	VTRT	0	SYNC Serial Communication Enable	50	UARTI		RS-232C Data
ر ا	V 11 ( 1		Signal for Camera Micom	51	UARTO	0	RS-232C Data
7	RESET	I	Reset Signal	52	PCOE	0	RS-232C Driver Output Enable
8	VDD	_	VDD (+3V)	53	BACK RST		(N.C.)
9	X2	0	Oscillator (14.7456MHz)	54	TEST0	,	VTR Test Signal
10	X1	ı	Oscillator (14.7456MHz)	34	12310	'	(H: Normal, L: Test Mode)
11	VSS	_	GND	55	VDD		VDD (+3V)
12	NC	0	NC	56	PC RESET	1	Reset Signal Detect (AD Input)
13	NC	0	NC	60	STBY	1	RS-232C Cable Connect Confirm
14	NC	0	NC	61	BACK DET	_	GND
15	NC	_	NC	64	AVDD	_	Voltage for AD Converter (+3V)
17	NC	_	NC	65	AVREF1		Refference Voltage for AD Converter
18	NC	0	NC	00	AVNEFI	_	(+3V)
19	NC	_	NC	66	AVSS	_	GND for AD Converter
20	NC	0	NC	67	NC	_	NC
21	NC	0	NC	68	NC	_	NC
22	NC	0	NC	69	NC	_	GND
23	NC	0	NC	70	NC	_	GND
24	NC	_	NC	71	NC	_	GND
25	NC	0	NC	72	NC	_	GND
26	NC	0	NC	73	FRP	1	Frame SYNC Signal
27	NC	0	NC	76	SCK		Serial Clock Signal for SYNC Serial
28	NC	0	NC	/6	SUN	'	Communication (To VTR Micom)
29	NC	0	NC	77	COM RDY	1	SYNC Serial Communication Enable
30	VCO H	0	VCO Test Mode (H)	//	COMIND	'	Signal for VTR Micom
31	NC	0	NC	78	EVR SDI	1	Serial Data Input for SYNC Serial
32	NC	0	NC	/0	EVINOUI	1	Communication (To Camera Micom)
33	NC	0	NC	79	SDI		Serial Data for SYNC Serial
34	NC	0	NC	79	וחפ	_ '	Communication (To VTR Micom)
35	NC	0	NC	80	SDO	0	Serial Data for SYNC Serial
44	NC	_	NC	00			Communication (To VTR Micom)
45	VSS	_	GND				

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# LSI MICON ICS DC VOLTAGE CHART (Mini DV : SP MODE)

REF. NO.										IC2	2001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	3.6	3.6	2.7	. 0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
PLAY	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	0	0	3.6	1.7
REC	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
F.F	0	3.6	3.6	2.7	0	3.6	3.6	3.6	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
REW	0	3.6	3.6	2.6	0	3.6	3.6	0	3.6	0	0	0	0	0	0	0	3.6	0	3.6	1.7
REF. NO.									•	IC2	2001	-			-				·	
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	1.7	0	0	3.6	0	0	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
PLAY	1.8	0	0	3.6	0	0	0	0	3.6	0	3.6	0	0	3.6	3.3	0	3.6	0	0	0
REC	1.7	0	0	3.6	0	0	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	. 0
F.F	1.8	0	0	3.6	0	0	0	0	0	.0	0	0	0	3.6	3.3	0	0	0	0	0
REW	1.8	0	0	3.5	0	3.6	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
REF. NO.	1.0	1 0		0.0		7 0.0		1 0			001			0.0	1 0.0	1 -	1			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
PLAY	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
	_	0		0	0	_	3.6	+		3.6	0	_	0	0	0	1.5	1.5	0	1.7	0.2
REC	3.6		3.6		+	3.6	_	3.6	3.6	_	_	3.6				+		_		
F.F	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
REW	3.6	0.7	3.6	0	0	3.6	3.6	3.6	3.6	3.6 IC2	0	3.6	0	0	0	1.5	1.5	0	1.6	0.2
REF. NO.	<del></del>	T	1		T ==	T	1 47	1-00	1 00			70	70		75	70		70	70	
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
PLAY	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.5	0	3.6	3.5	2.8	0
REC	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
F.F	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
REW	0	1,5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0.9
REF. NO.	ļ	,		,				,		IC2						,				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.6	2.9	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	1.1	0	1.0	0	3.6	3.6	1.6
PLAY	3.6	3.0	2.9	3.6	0	0	0_	3.0	0	0	3.6	0	0	0	1.6	1.0	0	3.6	3.6	1.1
REC	3.6	3.2	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	1.1	_ 0	0.9	0	3.6	3.6	1.8
F.F	3.6	3.1	2.9	3.5	0	0	0	3.0	0	0	3.6	0	0	1.1	0	1.1	1.0	3.6	3.6	1.8
REW	3.6	3.3	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	1.1	0	1.0	3.6	3.6	3.6	1.8
REF. NO.							_			IC2	001									
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	3.6	3.6	0	0	0	2.7	3.5	0	0	0	0	0	1.5	1.5	1.5	0	0	0	0
PLAY	0	3.6	3.6	0	0	0	2.7	3.4	0	0	0	0	0	1.1	1.1	1.1	0	0	0	0
REC	0	3.6	3.6	0	0	0	2.7	3.4	0	0	0	0	0	1.7	1.8	1.7	0	0	0	0
F.F	0	3.6	3.6	0	0	0	2.7	3.5	0	0	0	0	0	1.8	1.8	1.8	0	0	0	0
REW	0	3.6	3.6	0	0	0	2.7	3.4	0	0	0	0	0	1.4	1.4	1.5	0	0	0	0
REF. NO.										IC2	001									
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0	0	0	0	0	0	3.6	3.6	2.2	0	0	0.7	0	0	0	2.2	2.1	2.2	0.1	0
PLAY	0	0	0	0	0	0	3.6	3.6	2.2	0	0	0.7	0	0	0	2.1	2.2	2.2	0.1	0.1
REC	0	0	0	0	0	0	3.6	3.6	2.2	0	0	0.7	0	0	0	2.2	2.1	2.1	0.1	0.1
F.F	0	0	0	0	0	0	3.6	3.6	2.2	0	0	0.7	0	0	0	2.2	0	0	0.6	0
REW	0	0	0	0	0	0	3.6	3.6	3.6	0	0	0.7	0	0	0	2.2	2.2	2.2	0.1	0
REF. NO.							5.0			iC20										
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	1	T	I	$\overline{}$
STOP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2				
PLAY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.2		-		
REC	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.2			-	
F.F	2.2	2.2	2.2	2.2	2.2	2.2	0.1	2.2	2.2	0.1	0.1	0.1	0.1	0.1	0	2.2				-
			-	_					$\overline{}$	<del></del>	0	0			0					-
REW	0.1	0	0	0.1	0.1	0.1	0.1	0	0.1	0.1 C20		U	0	0	U	2.2				$\dashv$
MODE REF. NO.	1		3	4	_	ا ء	7	8	9			10 7	10 1	14	15	10 1	47 I	10	10	20
		2		4	5	6				10	11	12	13	14		16	17	18	19	
STOP	3.1	3.1	0	0	0	0	0	3.2	1.0	1.9	0	0	0	0	0	0	0	0	0	0
PLAY	3.1	3.1	0	0	0	0	0	3.2	1.0	1.9	0.1	0.1	0	0.1	0	0.1	0.1	0.1	0	0
REC	3.1	3.1	0	0	0	0	0	0	0	1.9	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1	0.1	0
F.F	3.1	0	0	_0	0	0	0	3.2	1.0	1.9	0	0	0	0	0	0	0	0	0	0
REW	3.1	3.1	0	0	0	0	0	3.2	1.0	1.9	0	0	0	0	0	0.1	0.1	0	0.1	0.1
REF. NO.										IC20										
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	0	0	0	0	3.2	0	3.2	0	0	0	0	1.9	1.6	2.5	0	0
PLAY	0	0.1	0	0.1	0	0.1	0.1	0	3.2	0	3.2	0	0.1	0	0.1	1.9	1.6	2.5	0.1	0
REC	0.1	0.1	0.1	0	0	0.1	0.1	0.1	3.2	0	3.2	0	0	0	0	1.9	1.6	2.5	0.1	1.4
F.F	0	0	0	0	0	0	0	0	3.2	0	3.2	0	0	0	0	1.9	1.6	2.5	0	0
REW	0	0	0	0	0	0	0	0	3.2	0	3.2	0	0.1	0	0.1	1.9	1.6	2.5	0	1.4

REF. NO.	T									10	2002									
MODE	41	42	43	44	45	46	47	48	T	T 10	2002	T	1	Т		1	_		1	_
STOP	0	0	0	0	0	1.4	0.8	1.3	+	+	-	-	-	<del> </del>	+	-	+	┼	-	<del> </del>
PLAY	0.1	0.1	0.1	2.0	2.0	1.4	0.0	1.3	<del> </del>	+	+		<del> </del>	-	<del> </del>	<del> </del>	+	+	+	+
REC	0.1	0.1	0.1	0	0	1.4	0.8	1.3		-	+	<del> </del>	1	+	<del>                                     </del>	+	+-	+	+	+-
F.F	0.1	0	0.,	1 0	2.0	1.4	0.8	1.3	<del>                                     </del>	+-	_	<del> </del>	-	+	+-	+	+	+	+	+
REW	0	0	1 0	0	2.0	1.4	0.8	1.3	┼──	+-	-	+	<del> </del>	1	<del> </del>	+	+	┼	+-	+
REF. NO.			1	1		2003	0.0	1 1.0	1	1	+	1	1		IC	2004				
MODE	1	2	3	T	T	T		T	T	T	1	2	3	4	5	6	7	8	Т	T
STOP	3.2	0	3.2	1				<del>                                     </del>		$\dagger$	0	3.6	3.6	1.7	0	0	0.6	3.7	+	+-
PLAY	3.2	0	3.2							_	0	3.6	3.6	1.6	0	0	0.8	3.7	+	<del>                                     </del>
REC	3.2	0	3.2	1	<b>—</b>		1			<b>†</b>	0	3.6	3.6	1.7	0	0	0.8	3.6	┼──	-
F.F	3.2	0	3.2				<del>                                     </del>				0	3.6	3.6	1.7	0	0	0.9	3.7	+	<del>                                     </del>
REW	3.2	0	3.2	1	1						0	3.6	3.6	1.7	0	0	0.8	3.7		<del>                                     </del>
REF. NO.	1									IC	2005	1 0.0	1 0.00				1 0.0	1 0.7		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.6	0	0	0	3.7	3.7	0	0	3.7	0	0
PLAY	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.7	0	0	0	3.7	3.7	0	0	3.7	0	0
REC	3.0	8.0	0	0	3.6	0	3.6	3.6	1.8	1.5	0	0	0	3.6	3.6	0	0	3.6	0	0
F.F	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.5	0	0	0	3.7	3.7	0	0	3.7	0	0
REW	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.5	0	0	0	3.7	3.7	0	0	3.7	0	0
REF. NO.										IC2	2005								•	
MODE \	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
PLAY	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
REC	0	0	0	0	0	3.6	0	3.6	3.6	0	0	3.6	3.6	3.6	0	0	0	0	0	0
F.F	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.6	0	0	0	0	0	0
REW	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
REF. NO.			1	1							005									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
PLAY	0.1	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0.1	0	2.1
REC F.F	0	0	0	0	0	0	0	3.6	0	3.4	3.6	3.6	0	3.6	3.6	3.3	0	0	0	2.1
REW	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
REF. NO.	U	U			0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
MODE .	61	62	63	64	65	66	67	68	69	70	71	70	70	74	75	70		70	70	
STOP	0	0	0	3.7	3.7	0	0	0	0	0	0	72	73	74	75	76	77	78	79	80
PLAY	0	0	0	3.7	3.7	0	0	0	0	0	0	0.1	1.5	0	0	3.5	3.6	0	3.3	0.1
REC	0	0	0	3.6	3.6	0	0	0	0	0	0	0.1	1.5	0	0	3.5	3.6	0	3.3	0.1
F.F	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	-0	3.5	3.6	0	3.3	0.1
REW	0	0	0	3.7	3.7	-	0	ŏ	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	
REF. NO.		<u> </u>		Ų.,	0.,	•	٠		<u> </u>	IC2		U	1.0	<u> </u>	U	3.3	3.0	0 [	ა.ა	0.1
MODE	1	2	3	4	5						1		Т		Т	-				$\dashv$
STOP	3.7	0	1.2	3.3	5.2								_	-+						
PLAY	3.7	0	1.2	3.3	5.1							_	+							$\overline{}$
REC	3.7	0	1.2	3.3	5.1	$\neg$						$\neg$	_		-+		-+			
F.F	3.7	0	1.2	3.3	5.1			$\neg$	$\neg \uparrow$				$\dashv$	-		-		-+		$\overline{}$
REW	3.7	0	1.2	3.3	5.1					$\neg$				-+			-	_		$\overline{}$
****																				

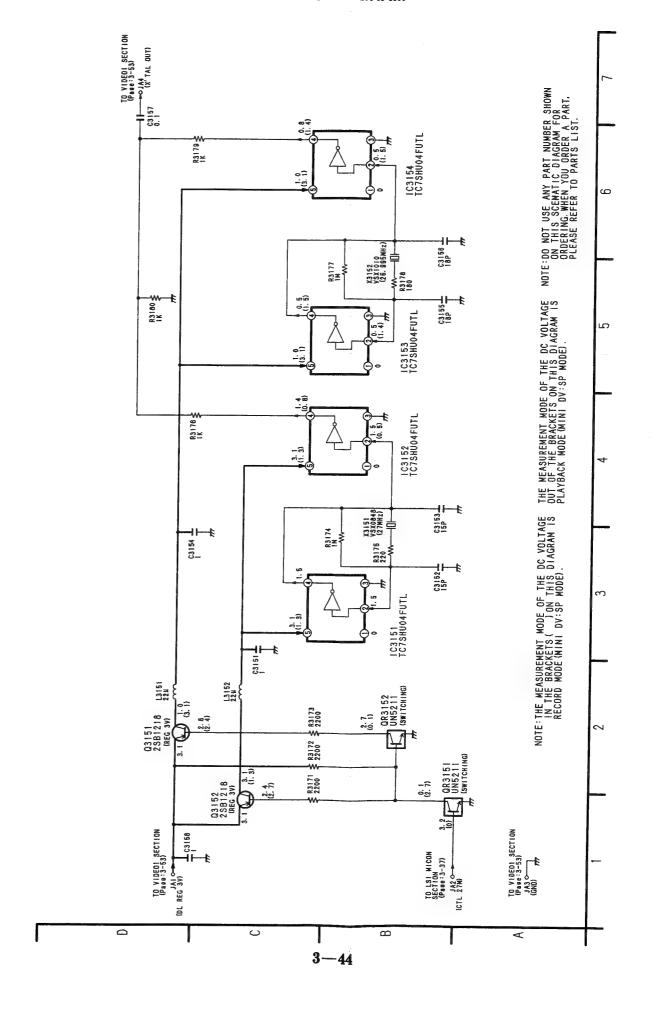
# LSI MICON TRS DC VOLTAGE CHART (Mini DV : SP MODE)

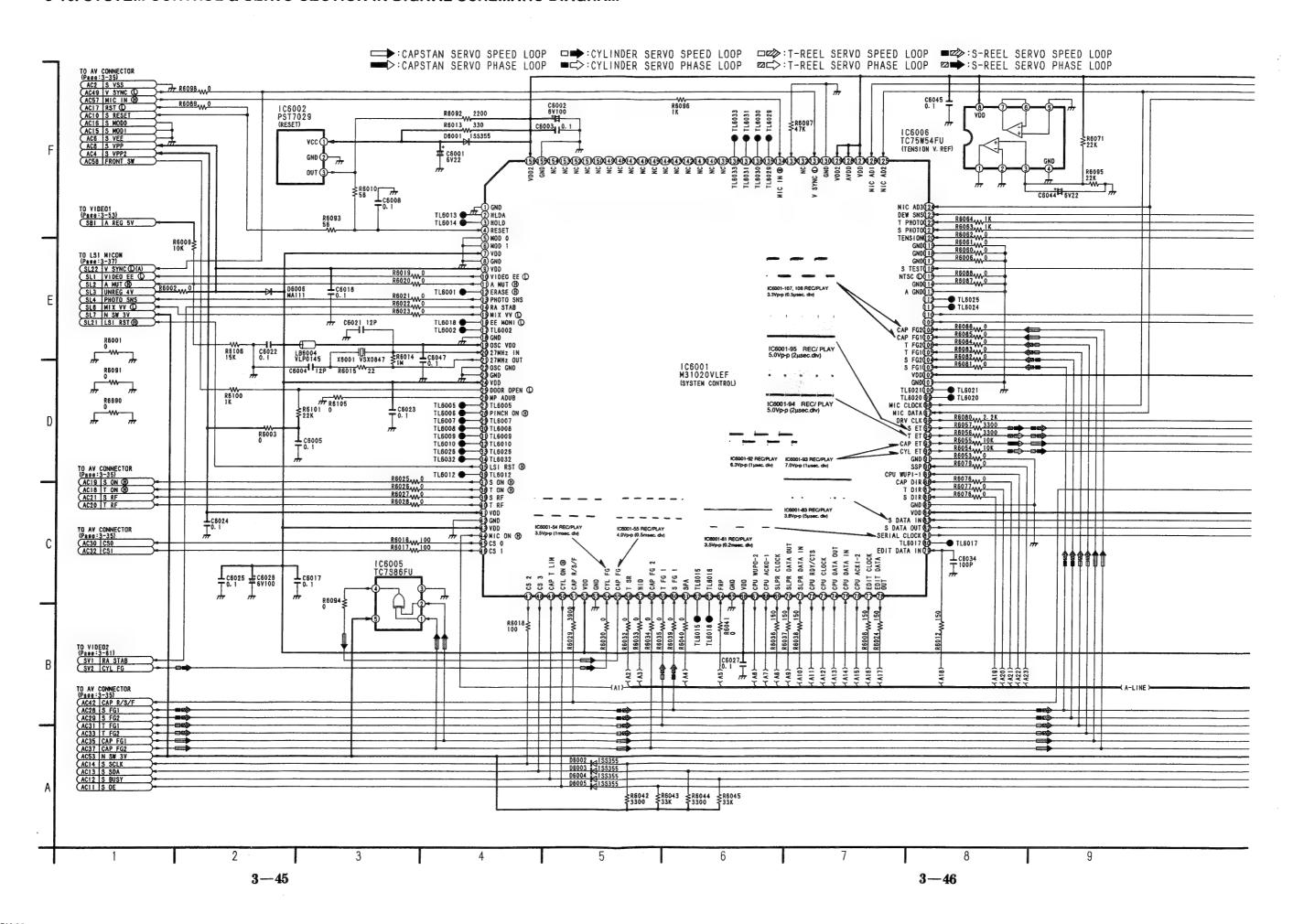
REF. NO.		QR2001	1		QR200	2		QR200	3			 	1	
MODE	E	С	В	E	С	В	E	С	В					
STOP	0	3.2	0	0	3.1	0	3.2	0	3.2					
PLAY	0	3.2	0	0	3.1	0	3.2	0	3.2					
REC	0	3.2	0	0	3.1	0	3.2	0	3.2			1		
F.F	0	3.2	0	0	3.1	0	3.2	0	3.2					
REW	0	3.2	0	0	3.1	0	3.2	0	3.2			1		

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#### VIDE-V25296 / DRUCK 19

# 3-15. CLOCK CHANGE SCHEMATIC DIAGRAM





# R6067 1K R6068 330 R6069 330 Q6001 2SB970X ₹86070 (MIC VOD) ₹88102 3300 ₹8103 3300 ₹3300 R6065 W1K 06007 158355 QR6001 06008 158355 QR6001 UN5213 (LOAD ON(D:ON) LB6001 VLP0145 TO AV CONNECTOR (Page:3-35) S DATA IN AC51 S DATA OUT AC50 SERIAL CLOCK AC44 LB6003 VLP0145 1C6003 MC14013BF (S DIR/T DIR) IC6004 TC7W74FU (CAP DIR) NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST. 10 12 13 3-47

# IC6001 (M31020VLEF): SYSTEM CONTROL MICROPROCESSOR

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	GND	_		55	CAP.FG		CAPSTAN 2 PHASE FG
2	HLDA	0	Low FIX	56	TSR	1	HID PHASE REF. SIGNAL
3	HOLD	0	Low FIX	57	HtD	1	HEAD SELECT SW
4	RESET	I	RESET INPUT	58	CAP.FG2	1	CAPSTAN FG 2
5	MOD0	ı	SIGNAL CHIP MODE SELECT	59	T.FG1	- 1	T REEL FG 1
6	MOD1	1	SIGNAL CHIP MODE SELECT	60	S.FG1	I	S REEL FG 1
7	VDD		VDD	61	SPA	1	
8	GND		GND	62		0	FIX Low OUTPUT
9	VDD	_	VDD	63		0	FIX Low OUTPUT
10	VIDEO.EE©	0	EE/VV SELECT OUTPUT (EE: L)	64	FRP	T	FRAME REF. SIGNAL
11	A.MUT(H)	0	AUDIO MUTE (H)	65	GND	_	GND
12	ERASE(H)	0	ERASE ON (H)/OFF	66	VDD	T —	POWER
13	PHOTO.SNS	0	TAPE SENSOR LED (ON: L)	-			SYS CTL μ-PROCESSOR ↔ LSI
14	RASTAB	0	S TAB OUTPUT	67	CPU WUP0-2	0	(OMMUNICATION)
15	MIX.VV©	0	MIX OUTPUT (VV MODE): L			_	SYS CTL µ-PROCESSOR ←→ LSI
16	EE.MONI(L)	0	EE MONITOR OUT: L	68	CPU ACK0-1	0	(OMMUNICATION)
17		0	FIX LOW OUTPUT				SERIAL/PARALLEL
18	GND		GND	69	SLPR.CLOCK	0	CONVERSION EXPANSION IC
19	OSC VDD		OSC POWER	<del>                                     </del>	SLPR. DATA.		SERIAL/PARALLEL
20	27MHz. IN	T	27MHz INPUT	70	OUT	0	CONVERSION EXPANSION IC
21	27MHz. OUT	0	27MHz OUTPUT	-	SLPR. DATA.		SERIAL/PARALLEL
22	OSC GND		OSC GND	71	IN	1	CONVERSION EXPANSION IC
23	GND		GND	<del> </del>	"		SYS CTL µ-PROCESSOR ↔ LSI
24	VDD		POWER	72	CPU RDY/CTS	0	COMMUNICATION
24	VDU	_	FRONT DOOR OPEN DETECT INPUT				SYS CTL μ-PROCESSOR ↔ LSI
25	DOOR OPEN®	ı	(OPEN: L, CLOSE/NO DOOR: H)	73	CPU CLOCK	- 1	SERIAL SLAVE CLOCK
26	MP ADUB	0	FIX Low OUTPUT				SYS CTL μ-PROCESSOR ↔ LSI
27	IVIP ADUB	0	FIX Low OUTPUT	74	CPU DATA OUT	0	SERIAL DATA OUTPUT
28	- DINICH ON	0	PINCH SOLENOID CONTROL OUTPUT				SYS CTL µ-PROCESSOR ←→ LSI
29	PINCH ON®	0	FIX Low OUTPUT	75	CPU DATA IN	ı	SERIAL DATA INPUT
30		0	FIX Low OUTPUT				SYS CTL µ-PROCESSOR ←→ LSI
			FIX Low OUTPUT	76	CPU ACKI-2	0	COMMUNICATION
31		0	TRAY MOTOR VOLTAGE CONTROL OUTPUT				
32		0	S REEL SOLENOID CONTROL OUTPUT	77	EDIT.CLOCK	0	SYS CTL µ-PROCESSOR ← EDIT
33		0	T REEL SOLENOID CONTROL OUTPUT	<del> </del>			MICON SERIAL MASTER CLOCK
34		0	RESET High OUTPUT	78	EDIT. DATA.	0	SYS CTL μ-PROCESSOR ← EDIT
35	LSI RST(H)	0			OUT		MICON SERIAL DATA OUTPUT
36		0	FIX LOW OUTPUT	79	EDIT. DATA.	1	SYS CTL μ-PROCESSOR ← EDIT
37	S.ON(H)	0	S REEL ON/OFF CONTROL		IN		MICON SERIAL DATA INPUT
38	T.ON(H)	0	T REEL ON/OFF CONTROL	80		0	FIX Low OUTPUT
39	S.RF	0	S REEL ROTATION DIRECTION CONTROL	81	SERIAL.CLOCK	0	TIMER ↔ SYS CTL μ-PROCESSOR
40	T.RF	0	T REEL ROTATION DIRECTION CONTROL	<u> </u>			MASTER CLOCK
41	VDD		POWER	82	S. DATA. OUT	0	TIMER ↔ SYS CTL μ-PROCESSOR
42	GND	-	GND				SIRIAL DATA OUTPUT
43	VDD		POWER	83	S. DATA. IN	1	TIMER ↔ SYS CTL μ-PROCESSOR
44	MIC.ON⊕	0	POWER FOR MIC				SIRIAL DATA INPUT
45	CS0	0	SERIAL/PARALLEL CONVERSION IC CHIP	84	VDD	_	POWER
	000		SELECT SIGNAL	85	GND	_	GND
46	CS1	0	SERIAL/PARALLEL CONVERSION IC CHIP	86	S. DIR	- 1	S REEL ROTATION DIRECTION DET.
70	001		SELECT SIGNAL	87	T. DIR	1	T REEL ROTATION DIRECTION DET.
47	CS2	0	SERIAL/PARALLEL CONVERSION IC CHIP	88	CAP. DIR	ı	CAPSTAN ROTATION DIRECTION DET
41	032		SELECT SIGNAL	89	CPU WUPI-1	0	SYS CTL μ-PROCESSOR ←→ LSI
10	CSS	$\sim$	SERIAL/PARALLEL CONVERSION IC CHIP	03	OI O WOFFI		PROCESSOR COMMUNICATION
48	CS3	0	SELECT SIGNAL	90	SSP	1	SECTOR START PULSE INPUT
49	CAP.T.LIM	0	CAP TORQUE LIMIT	91		_	
50	CYL.ON(L)	0	CYL DRIVING: Low	92	CYL. ET	0	CYLINDER TORQUE OUTPUT (12bit PWM)
51	CAP.R/S/F	0	CAPSTAN ROTATION DIRECTION CONTROL	93	CAP. ET	0	CAPSTAN TORQUE OUTPUT (12bit PWM)
52	VDD	_	POWER	94	T. ET	0	T REEL TORQUE OUTPUT (12bit PWM)
53	GND	_	GND	95	S. ET	0	S REEL TORQUE OUTPUT (14bit PWM)
			CYLINDER FG	96	DRV. CLK	0	CYLINDER DRIVER CLOCK

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
97	MIC. DATA	1/0	MIC SERIAL DATA	127	VDD	_	REF. POWER FOR ANALOG
98	MIC. CLK	0	MIC SERIAL CLOCK	128	AVDĐ	T-	ANALOG POWER
99	_	0	TIMER SERIAL CLOCK (500µ sec.)	129	VDD2	<b>—</b>	POWER FOR BUS
100		0	SYS. CTL MAIN ROUTIN (20msec.)	130	GND	_	GND
101	GND	_	GND	131	VSYNCL	T	V SYNC INPUT (SYNC EXIST: L)
102	VDD	_	POWER	132	_	0	
103	S. FG1		S REEL FG 1	133	_	ì	GND (VIA 47k Resistor)
104	S. FG2	ı	S REEL FG 2	134	MIC IN(H)	I	MIC INPUT (MIC IN: H)
105	T. FG1	ı	T REEL FG 1	135		0	FIX Low OUTPUT
106	T. FG2	ı	T REEL FG 2	136	_	0	FIX Low OUTPUT
107	CAP. FG1	1	CAPSTAN FG 1	137	_	0	FIX Low OUTPUT
108	CAP. FG2	- 1	CAPSTAN FG 2	138		0	FIX Low OUTPUT
109	LOAD(H)	0	LOADING MOTOR FORWARD OUTPUT	139		0	
110	UNLOAD®	0	LOADING MOTOR REVERSE OUTPUT	140	_	0	FIX Low OUTPUT
111	_	0	TRAY MOTOR FORWARD OUTPUT	141	_	0	FIX Low OUTPUT
112		0	TRAY MOTOR REVERSE OUTPUT	142		0	FIX Low OUTPUT
113	A GND	_	GND	143	_	0	FIX Low OUTPUT
114	GND	_	GND	144	_	0	FIX Low OUTPUT
115	NTSC	I	NTSC = LOW/PAL = HIGH	145		0	FIX Low OUTPUT
116	S. TEST	1	EVR ADJ INPUT	146	_	0	FIX Low OUTPUT
117	_	_	VIA RESISTOR GND	147	_	0	FIX Low OUTPUT
118			VIA RESISTOR GND	148	_	0	FIX Low OUTPUT
119		_	VIA RESISTOR GND	149		0	FIX Low OUTPUT
120	TENSION	ı	TAPE TENSION A/D INPUT	150		0	FIX Low OUTPUT
121	S. PHOTO	1	S PHOTO SENSOR INPUT (BLACK TAPE: L)	151	_	0	FIX Low OUTPUT
122	T. PHOTO	1	T PHOTO SENSOR INPUT (BLACK TAPE: L)	152		0	FIX Low OUTPUT
123	DEW. SNS	I	DEW SENSOR INPUT	153		0	FIX Low OUTPUT
124	MIC. AD3	ļ	A/D INPUT 3 FOR MIC	154	_	0	FIX Low OUTPUT
125	MIC. AD2	1	A/D INPUT 2 FOR MIC	155	GND		GND
126	MIC. AD1	ı	A/D INPUT1 FOR MIC	156	VDD 2	1	POWER

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (Mini DV : SP MODE)

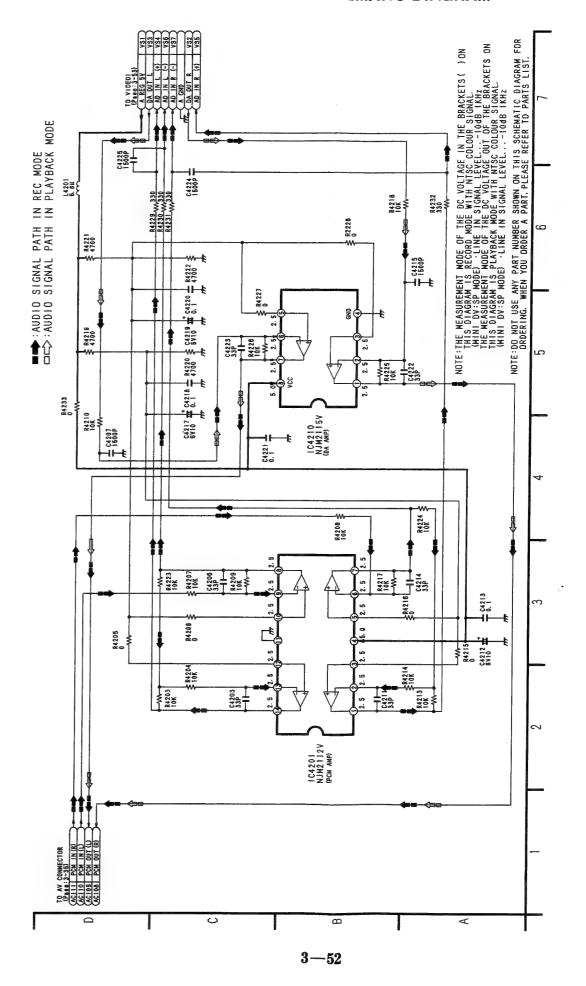
REF. NO.										IC	6001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	2.7	0	0	3.6	0	3.6	0	0	0	0	3.6	3.6	3.6	0	0	3.6	1.8
PLAY	0	0	0	2.7	0	0	3.6	0	3.6	3.6	0	0	3.6	3.6	3.6	3.6	0	0	3.6	1.8
REC	0	0	0	2.6	0	0	3.6	0	3.6	0	0	3.6	3.6	0	3.6	3.6	0	0	3.6	1.8
F.F	1.0	0	0	2.7	0	0	3.6	0	3.6	0	0	0	3.6	3.6	3.6	3.6	0	0	3.6	1.8
REW	0	0	0	2.6	0	0	3.6	0	3.6	0	0	0	0	3.6	3.6	3.6	0	0	3.6	1.8
REF. NO.		,		,		-	,			IC	6001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	1.8	0	0	3.6	0.1	0	0	0	0	0	0	3.6	0	0	0	0	0	0	3.6	0
PLAY	1.7	0	0	3.6	0.1	0	0	3.6	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	0
REC	1.8	0	0	3.6	0.1	0	0	3.6	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	0
F.F	1.2	0	0	3.6	0.1	0	0	0	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	0
REW	1.7	0	0	3.6	0.1	0	Ð	0	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	3.6
MODE REF. NO.		42	43	44	45	46	47	40	T 40		5001	50	I 60	T 54	55		67	1 50	T 50	1 00
STOP	3.6	0	3.6	3.6	45	0	0	48	3.6	3.6	1.8	52	53	3.4	55 0	56	57	58	59	60
PLAY	3.6	0	3.6	3.6	0.5	0.4	0.4	0.4	3.6	0	0	3.6	0	0	1.7	1.5	1.5	1.6	3.3 1.7	1.7
REC	3.6	0	3.6	3.6	0.4	0.4	0.4	0.4	3.6	0	0	3.6	0	1.7	1.8	1.5	1.5	1.6	1.7	1.7
F.F	3.6	0	3.6	3.6	0.4	0.4	0.4	0.4	3.6	1.8	1.8	3.6	0	1.7	0	1.5	1.5	0	1.6	1.6
REW	3.6	0	3.6	3.6	3.6	0.4	0.4	0.4	3.6	0	1.8	3.6	0	1.7	0	1.5	1.5	0	1.6	1.6
REF. NO.	1	, -	, 5.0	, 5.0					,	<del></del>	001	, 0.0				1	,			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	1.5	0	3.6	0	0	3.6	0	3.7	3.6	3.6	3.6	3.6	0	3.6	3.6	3.7	0
PLAY	0	0	0	1.5	0	3.6	0	0	3.3	1.0	3.3	3.6	3.6	1.5	3.6	0	3.3	2.9	3.6	0
REC	0	0	0	1.5	1.5	3.6	0	0	3.3	1.0	3.2	3.6	3.6	1.8	3.6	0	3.3	2.8	3.6	0
F.F	0	0	0	1.5	0	3.6	0	0	3.3	3.3	3.3	3.6	3.6	3.6	3.6	0	2.8	2.8	3.6	0
REW	0	0	0	1.5	0	3.6	0	0	3.3	1.0	3.3	3.6	1.1	3.6	2.6	0	3.3	2.8	3.6	0
REF. NO.			-	T 24							001									
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP PLAY	3.6	3.6	3.7	3.6	0	3.7 0	3.7 0	3.7	0 3.7	0	0	0	3.6	1.8	0	1.8	3.7	3.7	0	3.6
REC	3.1	3.0	3.5	3.6	0	0	0	3.7	3.6	0	0	1.9	1.6	0.3	0.1	1.8	3.7	3.7	0.1 3.7	1.8
F.F	3.1	3.1	3.5	3.6	0	0	0	0	0	0	0	1.9	1.8	0.7	0.1	1.8	3.6	3.7	0.1	1.8
REW	3.1	3.0	3.5	3.6	0	3.7	3.7	3.7	0	0	0	1.9	1.8	0	0.4	1.8	3.7	3.7	0.1	1.8
REF. NO.										IC6	001									
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	0	3.6	3.3	0	3.3	0	0	0	0	0	0	0	1.8	3.6	3.6	0	0	0	3.3
PLAY	0	3.6	1.6	1.7	1.6	1.6	1.6	1.6	0	0	0	0	0	1.8	3.6	3.6	0	0	0	2.7
REC	0	3.6	1.7	1.6	1.6	1.7	1.6	1.6	0	0	0	0	0	1.8	3.6	3.6	0	0	0	2.7
F.F	0	3.6	1.6	1.6	1.6	1.6	0	3.3	0	0	0	0	0	1.8	3.6	3.6	0	0	0	2.1
REW	0	3.6	1.6	1.6	1.6	1.6	2.9	3.3	0	0	0	0	0	1.8	3.6	3.6	0	0	0	1.0
REF. NO.	404	400	100		.05	100		400		IC6										
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0	0	0	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.5	2.2	0	3.0	3.6	3.6	3.6	1.7	1.7
PLAY REC	0.1	0.1	0.1	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.3	0	0	0	3.6	3.6	3.6	1.6	1.6
F.F	0.1	0	0	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.2	0	0	0	3.6	3.6	3.6	1.6	1.6
REW	0.1	0.1	0	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.2	0	0	0	3.6	3.6	3.6	1.7	1.6
REF. NO.									1	IC6					- 1					
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156				
STOP	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0	3.6	1			
PLAY	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.5	1.6	1.6	0	3.6				
REC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0	3.6				
F.F	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.7	1.6	0	3.6				
REW	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0	3.6				
MODE NO.	1	2	3			-	1		т	IC60	JU2	-							— т	
STOP	3.6	0	3.4										_			-				
PLAY	3.6	0	3.4						-+				-+							
REC	3.6	0	3.4								$\overline{}$			-						
		0	3.4	-				_			-				-			-	-+	
F.F	3.6		_										-	_		$\overline{}$				
REW	3.6	0	3.4	,						IC60	103									
		0	3.4										_							
REW		0	3.4	4	5	6	7	8	9	10	11	12	13	14						
REW REF. NO.	3.6			4 0	5 3.3	6	7 0	8	9 3.3	10 0	3.3	12	13 3.7	3.7						
REW REF. NO. MODE STOP PLAY	3.6 1 3.7 0	2	3					-		_		_								
REW REF. NO. MODE STOP PLAY REC	3.6 1 3.7 0	2 0 3.7 3.7	3 0 1.7 1.6	0	3.3	0	0	0 0 0	3.3 1.6 1.6	0	3.3	0	3.7	3.7						
REW REF. NO. MODE STOP PLAY REC F.F	3.6 1 3.7 0 0	2 0 3.7 3.7 3.7	3 0 1.7 1.6 1.5	0 0 0 0	3.3 1.6 1.6 1.5	0 0 0	0 0 0	0 0 0 0	3.3 1.6 1.6 1.5	0 0 0 0	3.3 1.6 1.6 1.6	0 3.7 3.7 3.7	3.7 0 0 0	3.7 3.7 3.7 3.7						
REW REF. NO. MODE STOP PLAY REC	3.6 1 3.7 0	2 0 3.7 3.7	3 0 1.7 1.6	0 0 0	3.3 1.6 1.6	0 0	0 0	0 0 0	3.3 1.6 1.6	0 0	3.3 1.6 1.6	0 3.7 3.7	3.7 0 0	3.7 3.7 3.7						

REF. NO.					IC6	004								ICE	6005				-
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		T	1	T	
STOP	0	0	0	0	3.6	3.7	3.7	3.7		0	0	0	0	3.7					
PLAY	1.6	1.6	0	0	3.7	3.7	3.7	3.7		1.6	1.6	0	1.8	3.7		T			
REC	1.6	1.6	0	0	3.7	3.7	3.7	3.7		1.6	1.6	0	1.8	3.7		1			
F.F	3.3	0	3.7	0	0	3.7	3.7	3.7		0	0	0	0	3.7					
REW	0	3.3	0	0	3.7	3.7	3.7	3.7		0	3.3	0	3.7	3.7					
REF. NO.									IC6	006					-			-	•
MODE	1	2	3	4	5	6	7	8								I	1		
STOP	1.8	1.8	1.8	0	0	0	0	3.6											
PLAY	1.8	1.8	1.8	0	0	0	0	3.6											
REC	1.8	1.8	1.8	0	0	0	0	3.6								1			
F.F	1.8	1.8	1.8	0	0	0	0	3.6	$\neg \neg$										
REW	1.8	1.8	1.8	0	0	0	0	3.6											

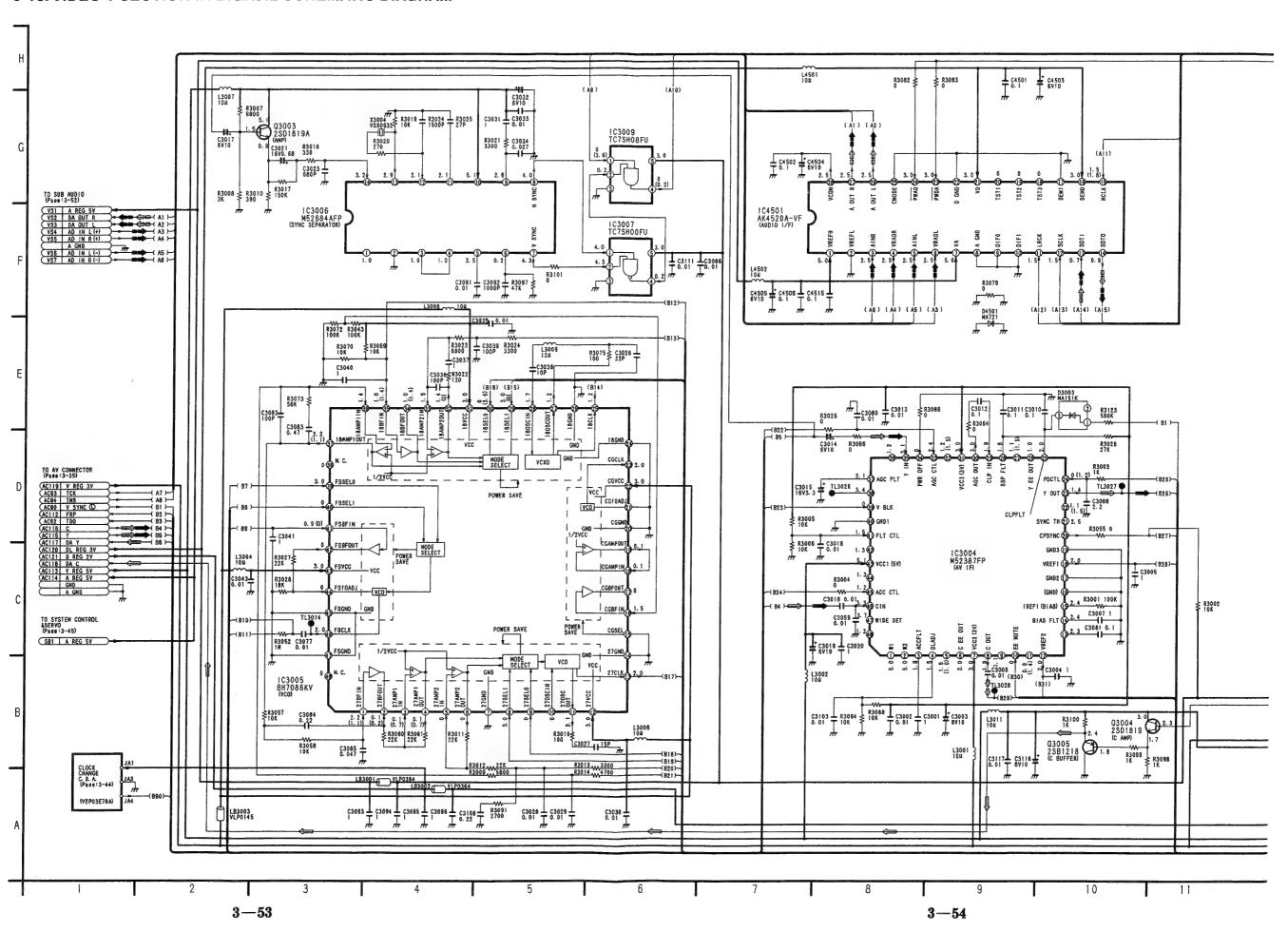
#### SYSTEM CONTROL & SERVO TRS DC VOLTAGE CHART (Mini DV : SP MODE)

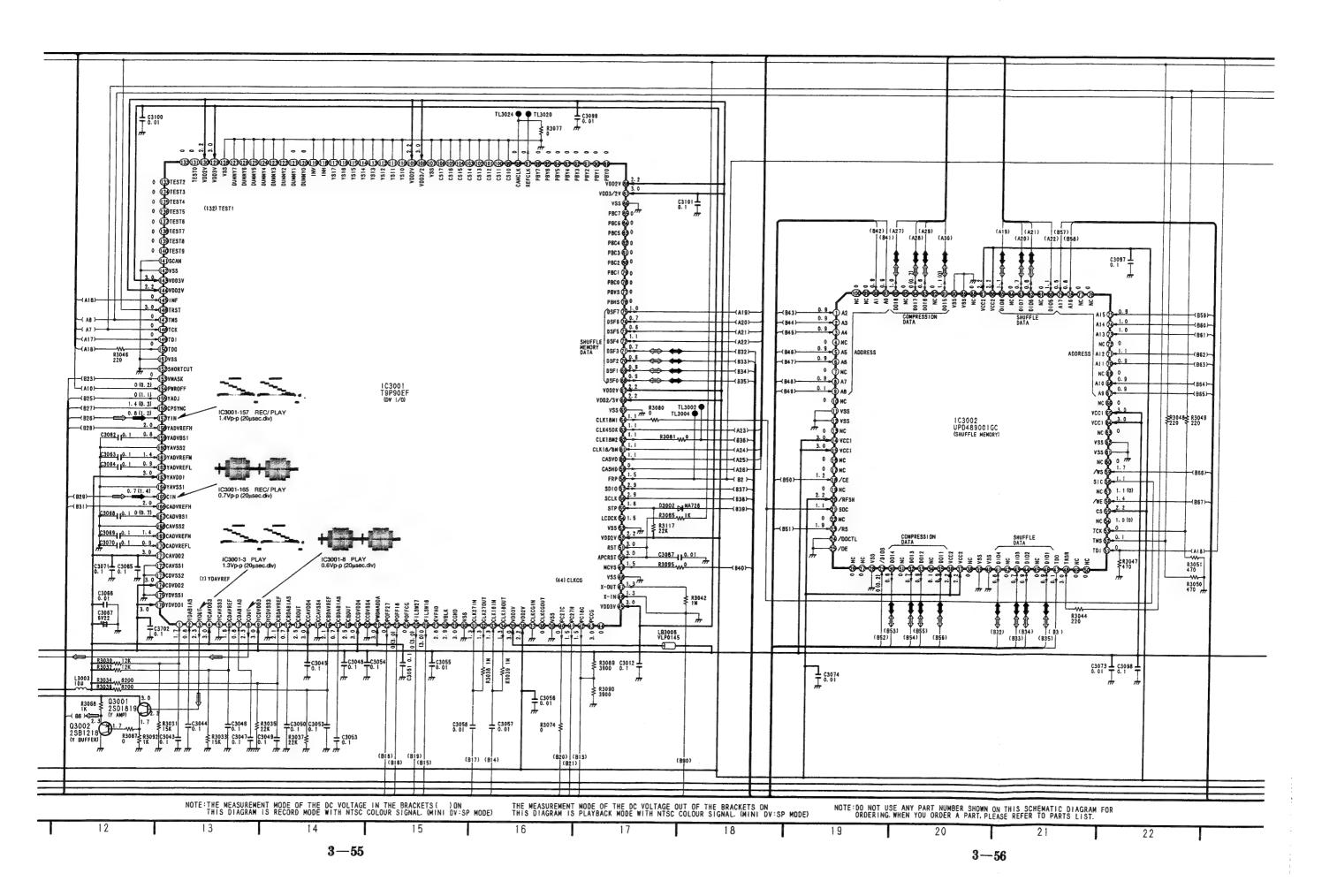
REF. NO.		Q6001				.1			<u>i</u> i	 	1.		1		
MODE	Ε	С	В					1		1		T		$\overline{}$	
STOP	3.7	3.7	3.6		]		T		T						1
PLAY	3.7	3.7	3.6				T	1							
REC	3.7	3.7	3.6			1		1							
F.F	3.7	3.7	3.6				T							1	
REW	3.6	3.7	3.6		1		T	T							
REF. NO.		QR6001	1												
MODE	Е	С	В												
STOP	0	3.4	0							1					
PLAY	0	3.4	0			T	T								
REC	0	3.4	0		T	T		1							
F.F	0	3.4	0			1									
REW	0	3.4	0												

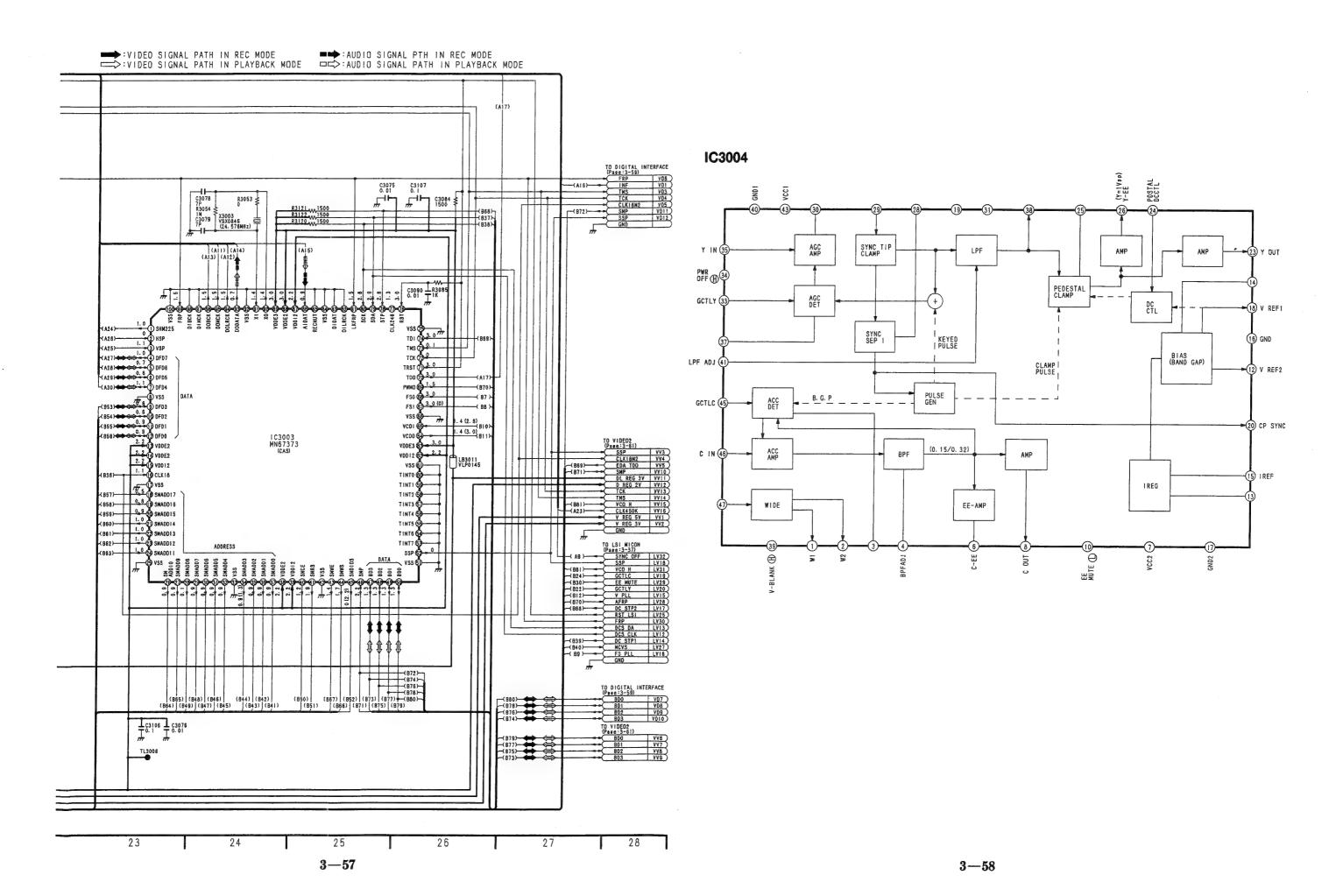
# 3-17. SUB AUDIO SECTION IN DIGITAL SCHEMATIC DIAGRAM

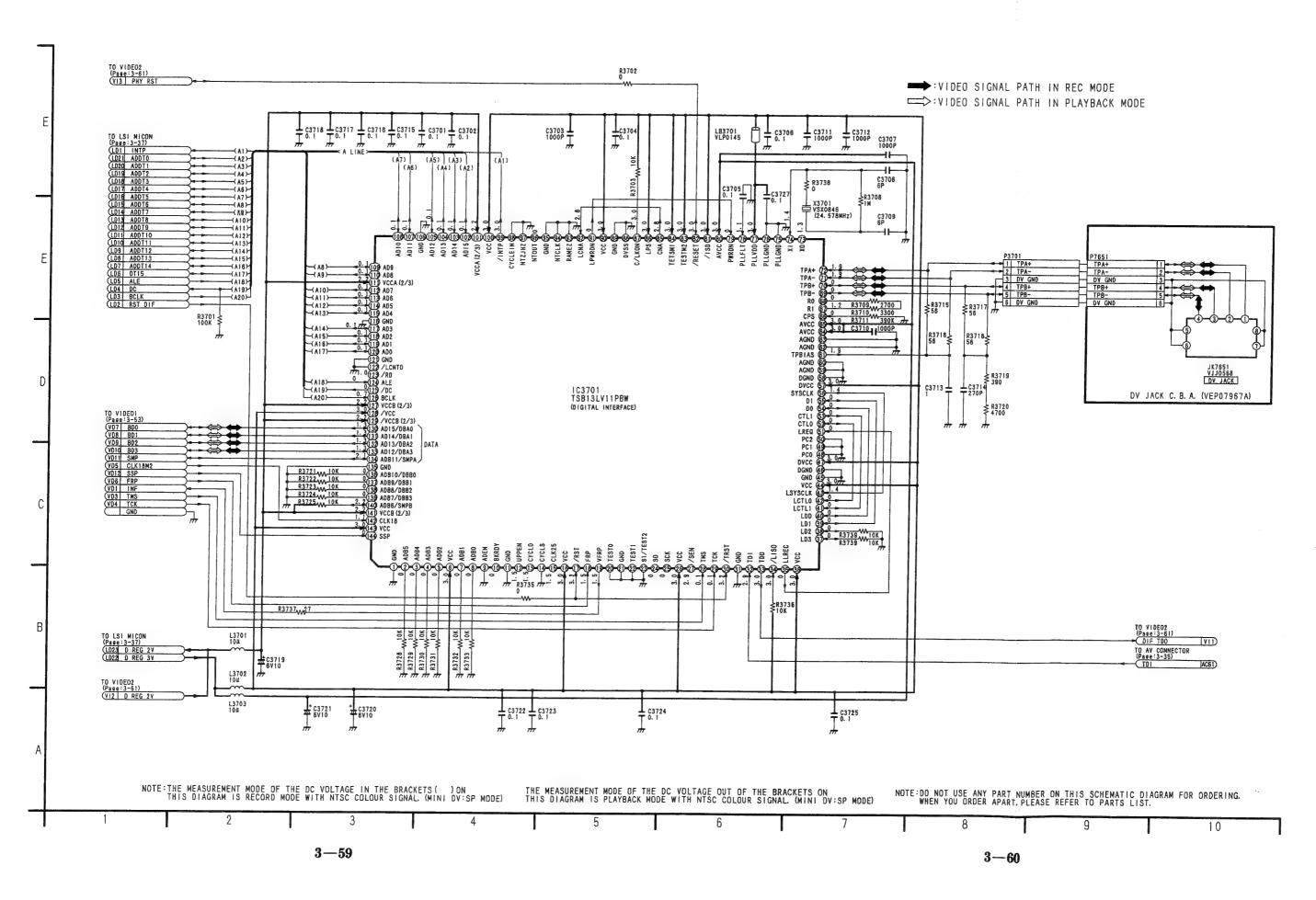


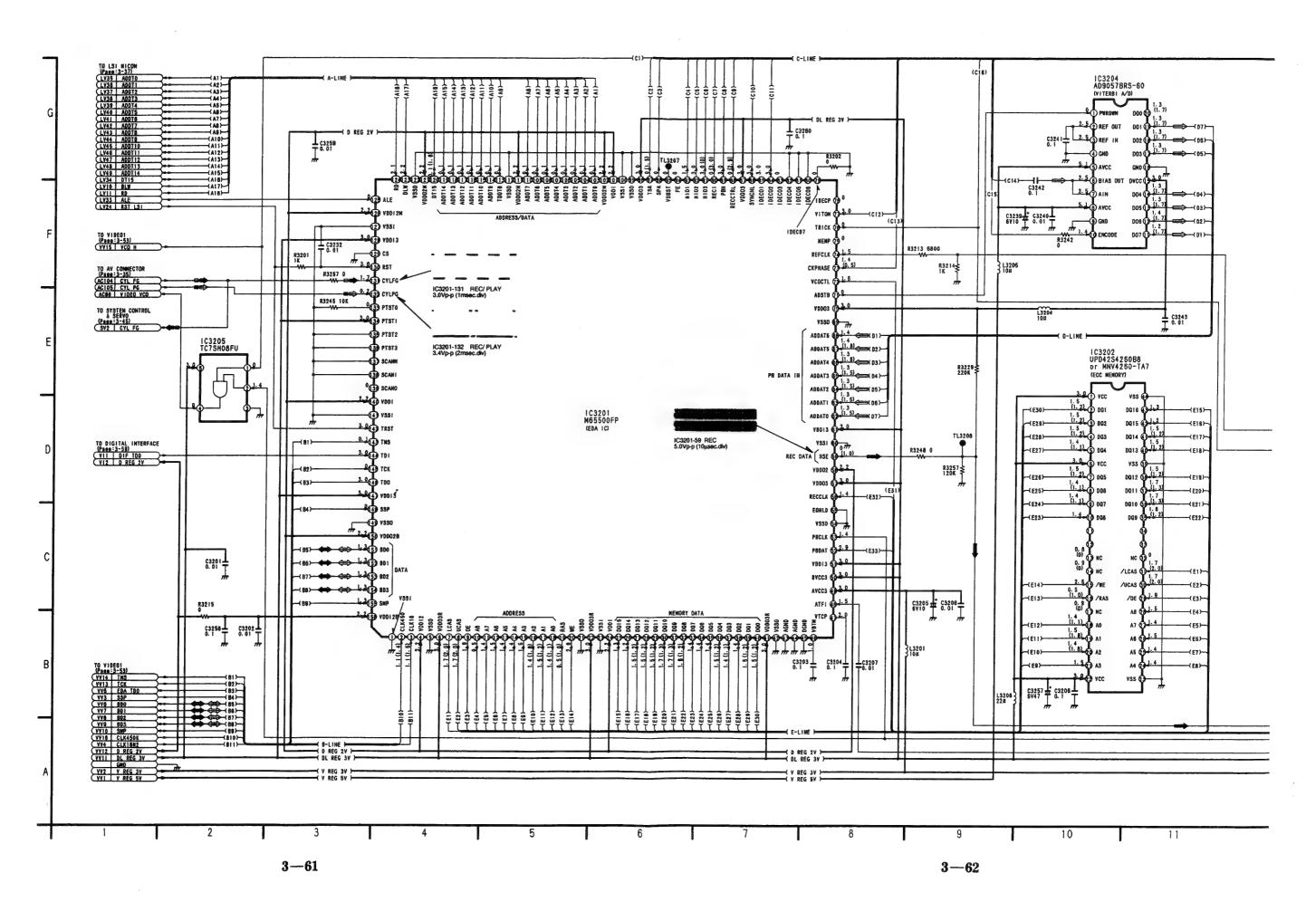
#### 3-18. VIDEO 1 SECTION IN DIGITAL SCHEMATIC DIAGRAM

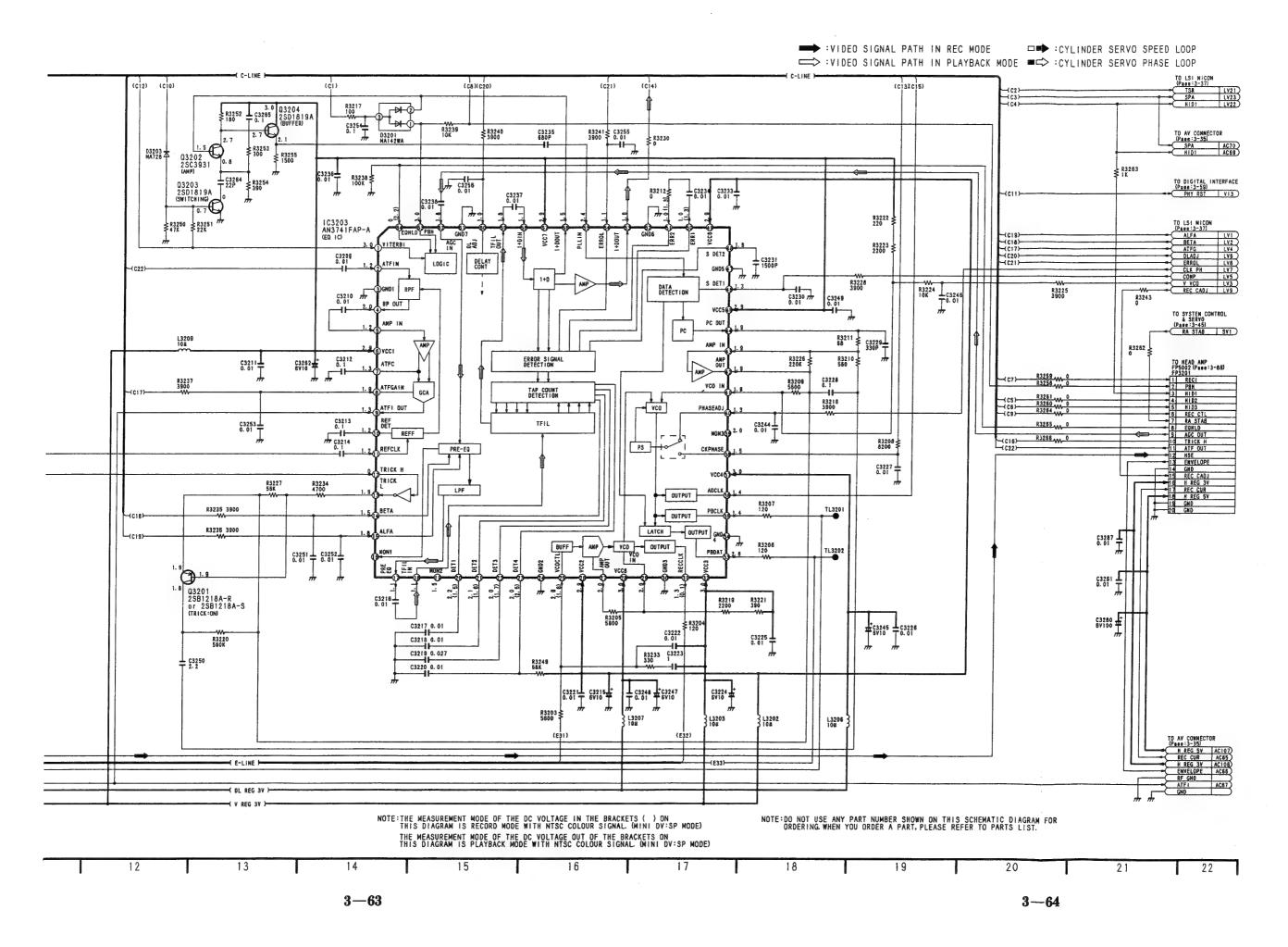


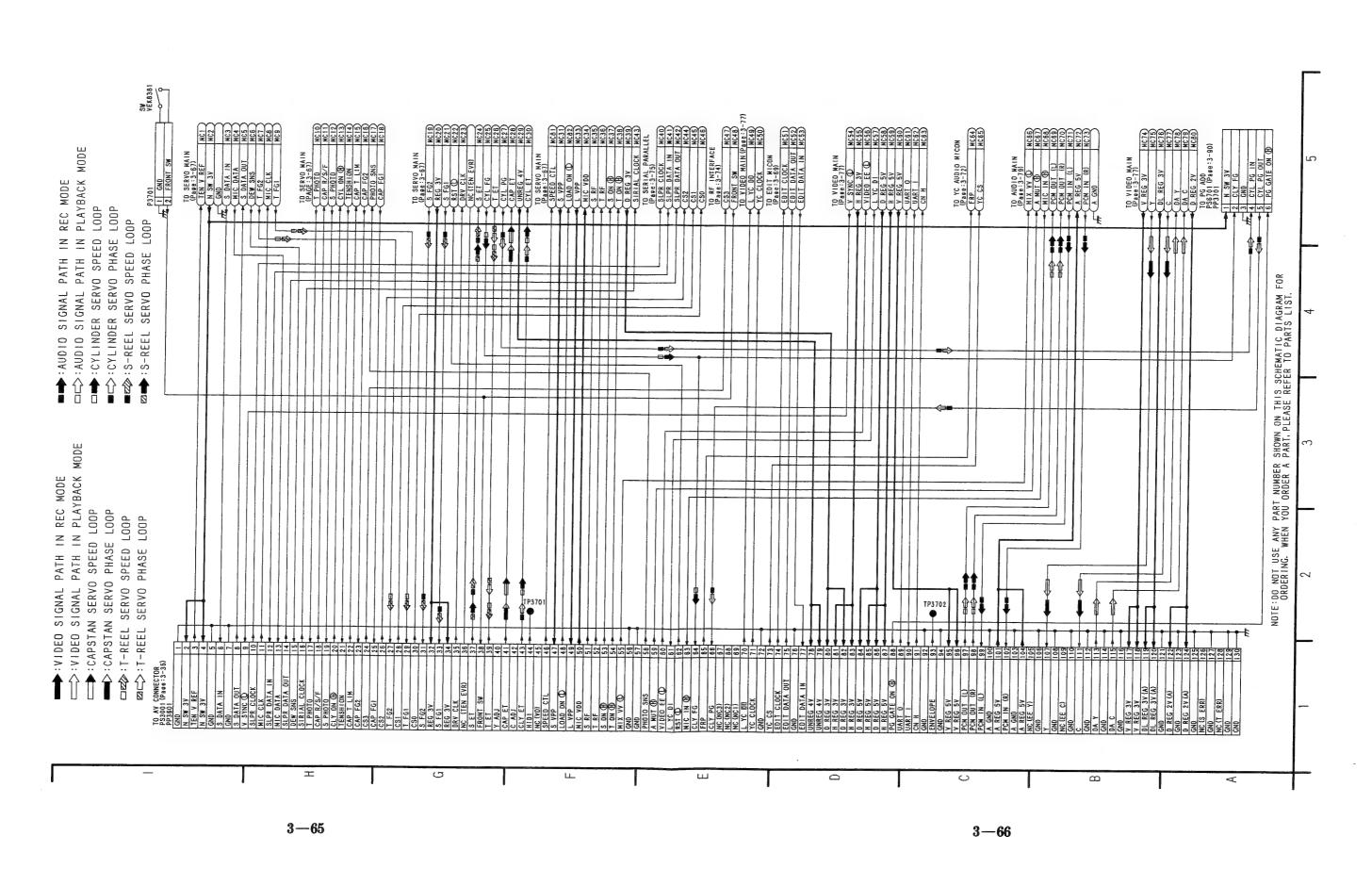




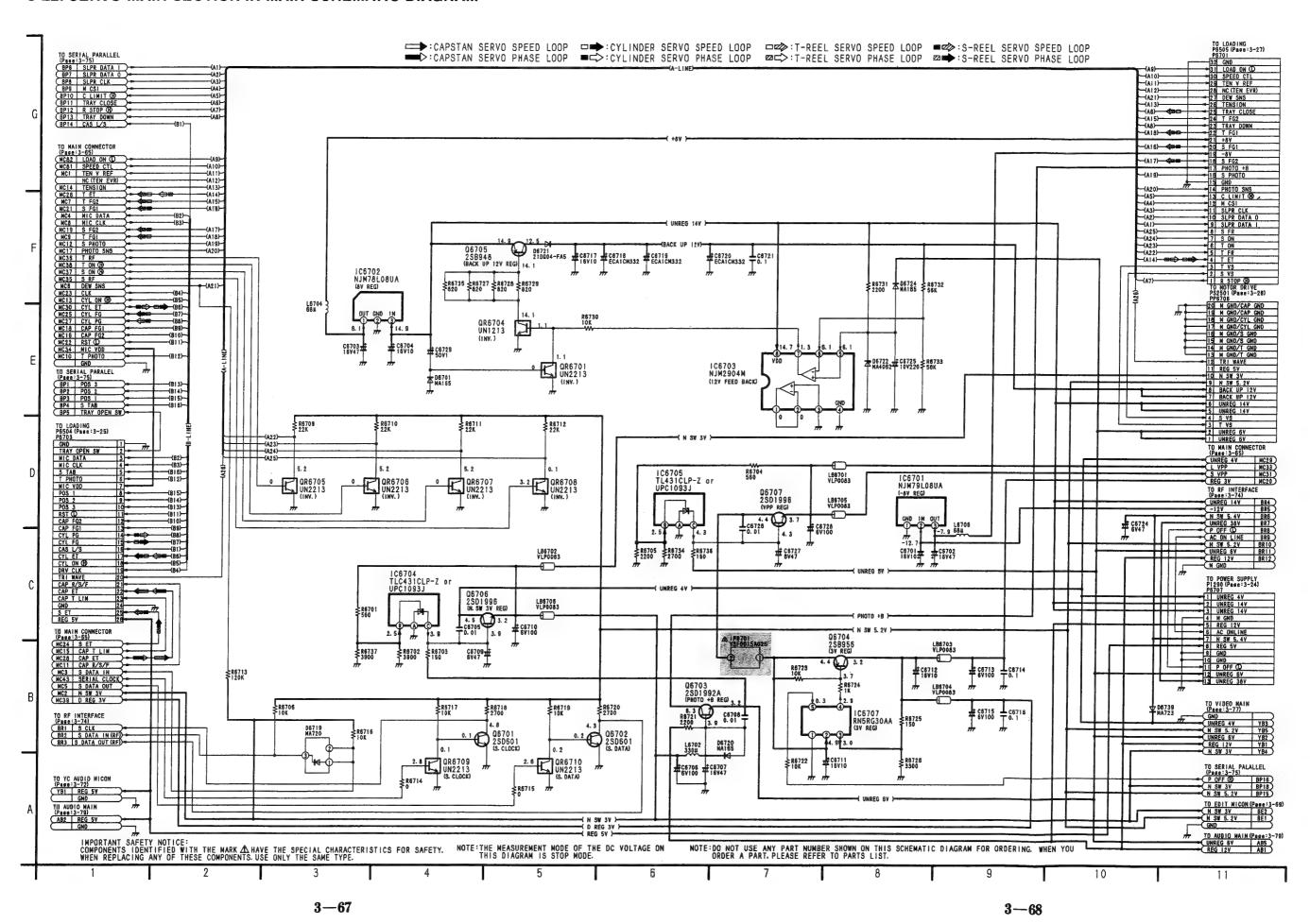


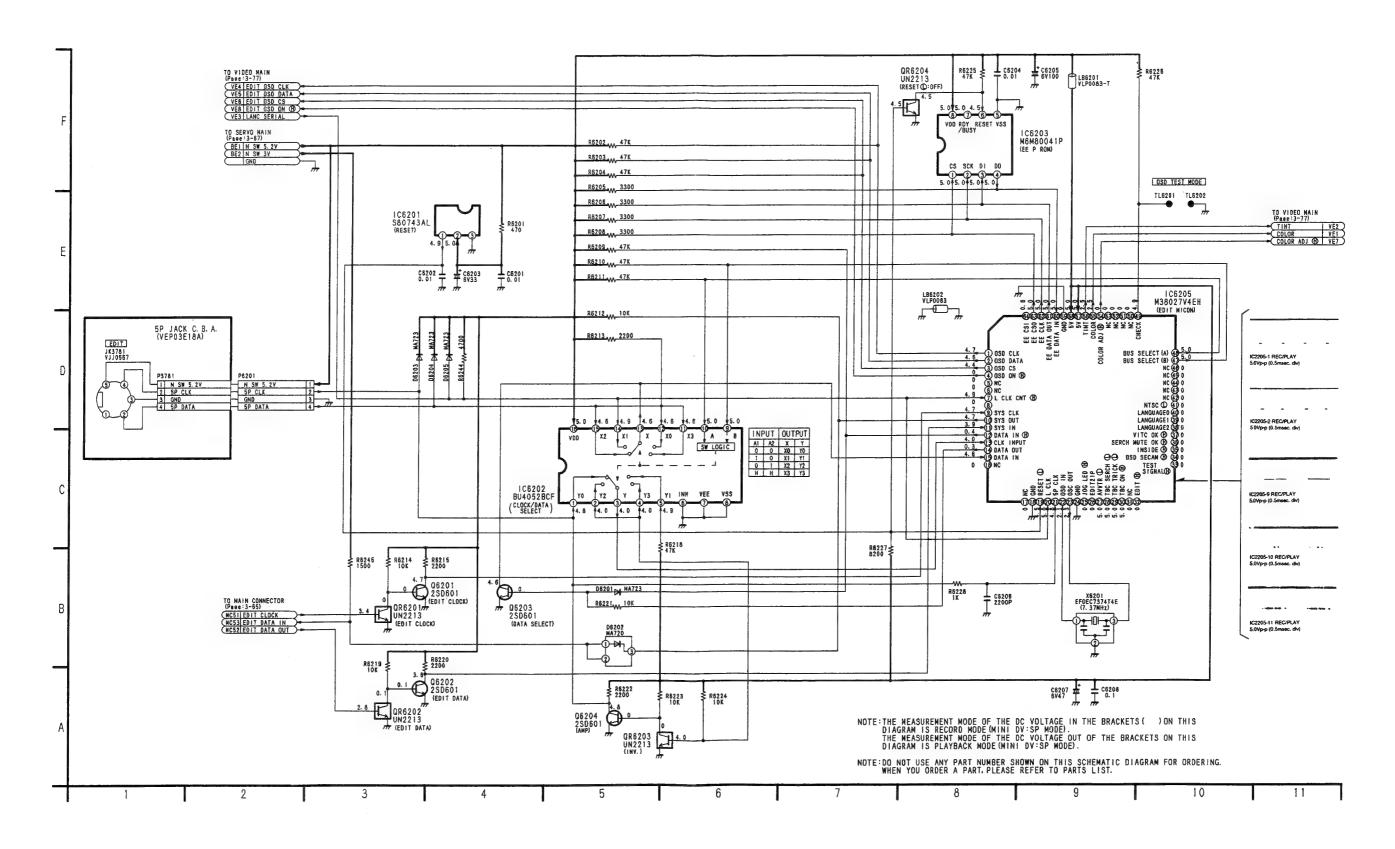






#### 3-22. SERVO MAIN SECTION IN MAIN SCHEMATIC DIAGRAM

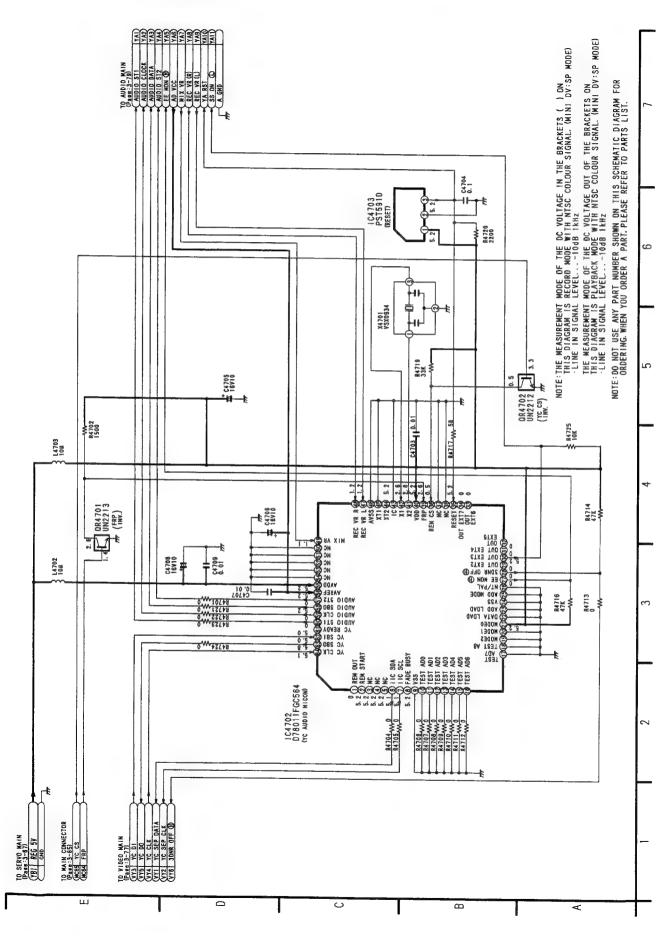




# IC6205 (M38027V4EH): EDIT MICON

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	OSD CLK	0	OSD CLOCK	33	NC		
2	OSD DATA	0	OSD DATA	34	NC	_	
3	OSD CS	0	OSD CHIP SELECT	35	INSIDE (H)	_	EDIT OSD (H) SIP (L)
4	OSD ON (H)	0	OSD ON (H)	36	NC	_	
5	NC			37	NC		
6	NC			38	NC		
7	L CLK CNT ⊕	-	LANC SERIAL COUNT	39	NC		
8	NC			40	NC	_	
9	SYS CLK	- 1	SYSCON SERIAL CLOCK	41	NTSC (L)		NTSC L
10	SYS OUT	0	SYSCON SERIAL DATA OUT	42	NC	_	
11	SYS IN	Ī	SYSCON SERIAL DATA IN	43	NC	_	
12	DATA IN 🕀	0	DATA IN (II)	44	NC		
13	CLK INPUT	1	SERIAL CLOCK	45	NC		
14	DATA OUT	0	SERIAL DATA OUT	46	NC	_	
15	DATA IN	- 1	SERIAL DATA IN	47	BUS SELECT A	0	SERIAL SELECT
16	NC			48	BUS SELECT B	0	SERIAL SELECT
17	NC			49	TL6201	_	
18	GND			50	NC		
19	RESET L	-	RESET ©	51	NC	_	
20	L CLK		LANC CLOCK	52	NC	_	
21	5P CLK		5P CLOCK	53	NC	_	
22	OSD IN	1	MICON CLOCK	54	COLOR ADJ 🕀	0	COLOR ADJUSTMENT (H)
23	OSD OUT	0	MICON CLOCK	55	COLOR	0	COLOR
24	GND			56	TINT	0	TINT
25	NC			57	5V	- 1	
26	NC	_		58	5V	1	
27	NC			59	GND	_	
28	NC	_		60	EE DATA IN	I	E <sup>2</sup> PROM DATA IN
29	NC			61	EE DATA OUT	0	E <sup>2</sup> PROM DATA OUT
30	NC	_		62	EE CLK	0	E <sup>2</sup> PROM SERIAL CLOCK
31	NC	_		63	EE CS	0	E <sup>2</sup> PROM CHIP SELECT
32	NC	_		64	NC	_	

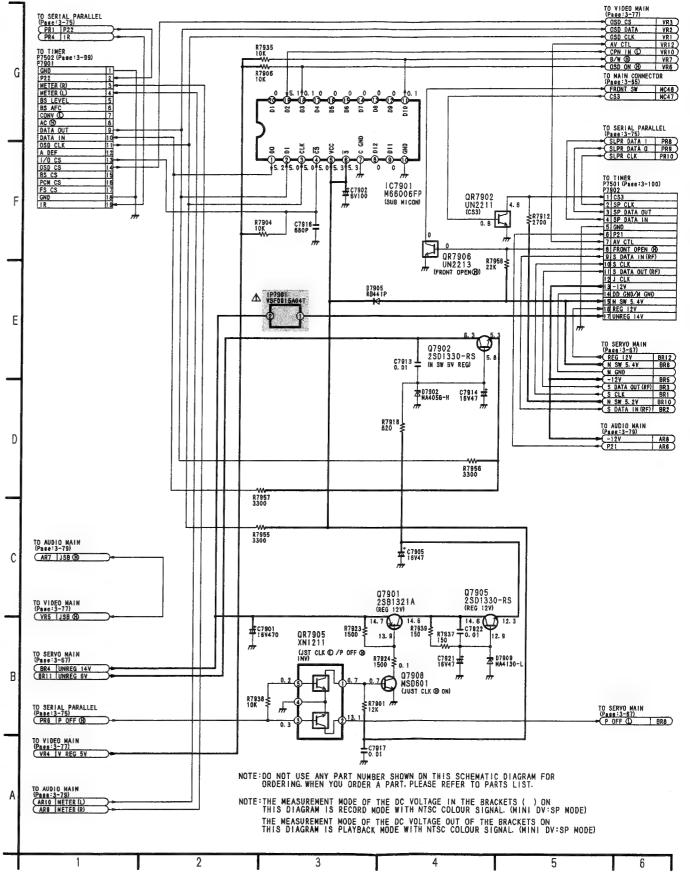
# 3-24. Y / C AUDIO MICON SECTION IN MAIN SCHEMATIC DIAGRAM



# IC4702 (D78011FGC564): YC AUDIO MICON

			,			_	
PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	REM OUT	0	REMOCON SIGNAL OUT	33	NC		
2	NC	-		34	NC	—	
3	NC	-		35	RESET	1	RESET
4	NC			36	GND	_	
5	NC	_		37	GND	_	
6	IIC SDA	_	IIC SERIAL DATA	38	REM CS	1	CONTROL SERIAL CS
7	IIC SCL	- 1	IIC SERIAL DATA	39	FRP	-	FRAME SINCHRO PALUS
8	NC	-		40	VDD	1	POWER
9	VSS	_	GND	41	X2	0	
10	GND			42	X1	- 1	
11	GND	-		43	GND		
12	GND	_		44	NC	_	
13	GND			45	GND		
14	GND			46	GND	-	
15	GND	_		47	REC VR L	1	REC VR (L)
16	GND			48	REC VR R		REC VR (R)
17	GND	_		49	MIX VR	1	MIX VR
18	GND	_		50	GND	_	
19	GND			51	GND	_	
20	GND	_		52	GND	_	
21	MODE 0	i	MODE SELECT 0	53	GND		
22	GND	-		54	GND	_	
23	GND	_		55	AVDD	1	POWER
24	GND	_		56	AVREF		AV REF
25	GND	_		57	AUDIO ST2	0	AUDIO STOROBE 2
26	GND			58	AUDIO SBO	0	AUDIO SERIAL OUT
27	EE MON (H)	0	EE MONITOR (H)	59	AUDIO CLK	0	AUDIO CLOCK
28	3 DNR OFF 🕀	0	THREE DIMENSIONS NR OFF (H)	60	AUDIO ST1	0	AUDIO STOROBE 1
29	NC	_		61	NC	_	
30	SS ON 🗓	0	SERACH SOUND ON (L)	62	YC SBI	- 1	YC SERIAL BUS IN
31	NC			63	YC SBO	0	YC SERIAL BUS OUT
32	NC			64	YC CLK		YC CLOCK

# 3-25. RF INTERFACE SECTION IN MAIN, 5P JUCK SCHEMATIC DIAGRAMS



# 3-26. SERIAL PARALLEL SECTION IN MAIN SCHEMATIC DIAGRAM ■■ :AUDIO SIGNAL PATH IN REC MODE TO FRONT-L PS4851 (Page: 3-94) P6401 -1 LEFTER CTL2 (D) -2 IR -3 IN SW5. 2V -4 P22 -5 DV MODE -6 5P MODE -7 RS MODE -10 REC MODE -10 REC MODE -11 P2 MODE -12 GND -13 L2 IN (R) -14 V REG 5V -15 L1NE 2V IN -18 GND -17 L1NE 2V IN -18 GND -19 CPN 2C IN -19 C 88445 W 10K 86447 W 17K 86445 W 17K 86451 W 17K 86451 W 17K 86451 W 17K 33K 33K 33K 33K R6406 R6406 R6408 R6409 R6409 106401 M66010GP (SUB MICON) C6403 6 R6463€ R6458 TO RF INTERFACE (Page: 3-74) F22 STEREO © BIL © R6422 22K MC44 CS2 (MC42 SLPR DATA OUT (MC45 CS1 (MC40 SLPR CLOCK ¥ R6401 ≥ 2700 ₹ R6402 2700 ₹ R6403 2700 ₹ R6404 ₹ 2700 QR6403 UN2211 (C52) QR6404 UN2211 (CS0) QR6402 1. 0 UN2211 (SLPR DATA) 106403 M66010GP (SUB MICON) ₹ R6454 R6455 2700 QR6405 UN2213 (SLPR CLOCK) 06401 2\$0601 (SLPR CLOCK) C6402 1

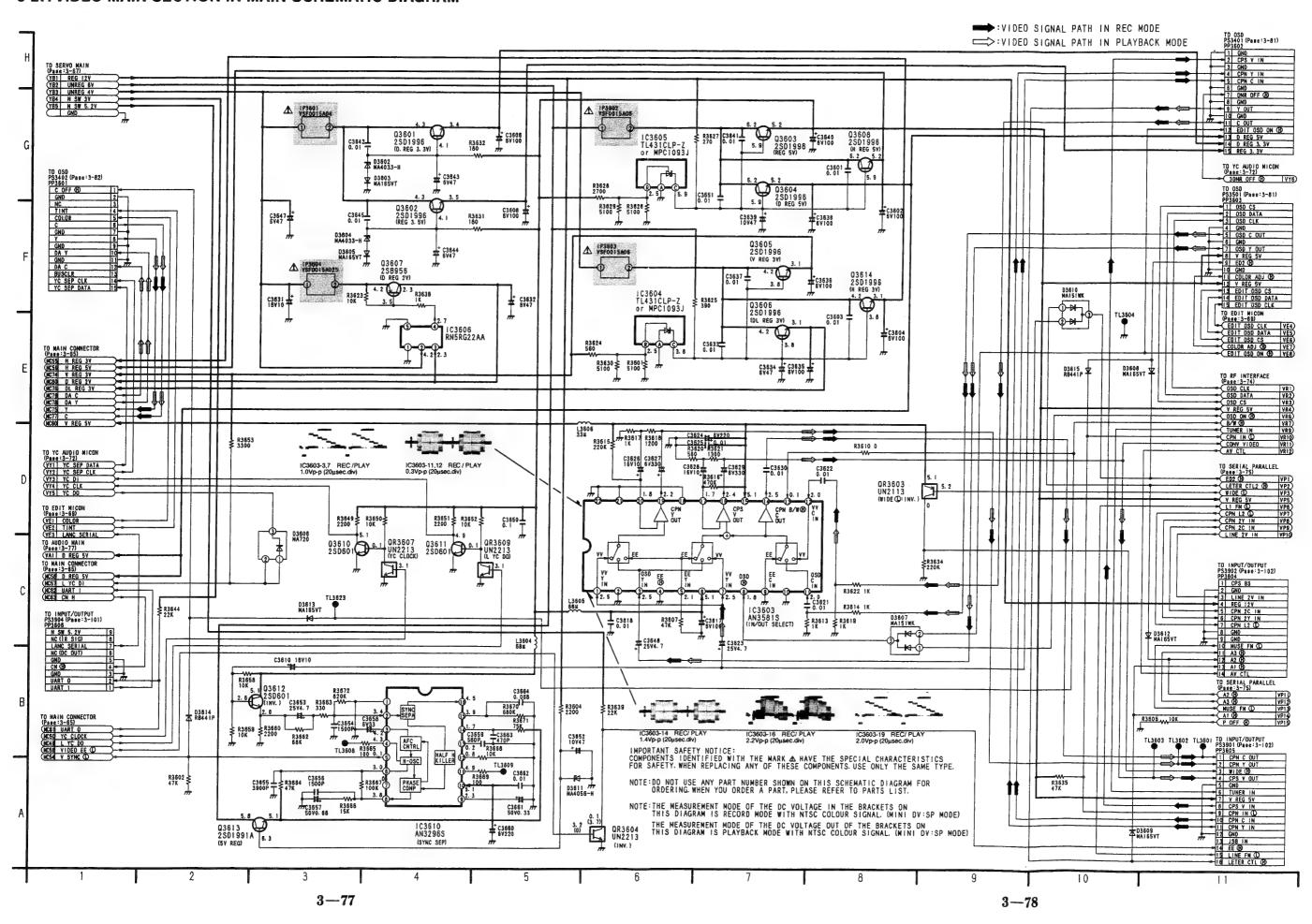
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH NTSC COLOUR SIGNAL. (MINI DV:SP MODE) - LINE IN SIGNAL LEVEL... - 104B 1kHz

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH NTSC COLOUR SIGNAL. (MINI DV:SP MODE) - LINE IN SIGNAL LEVEL... - 104B 1kHz

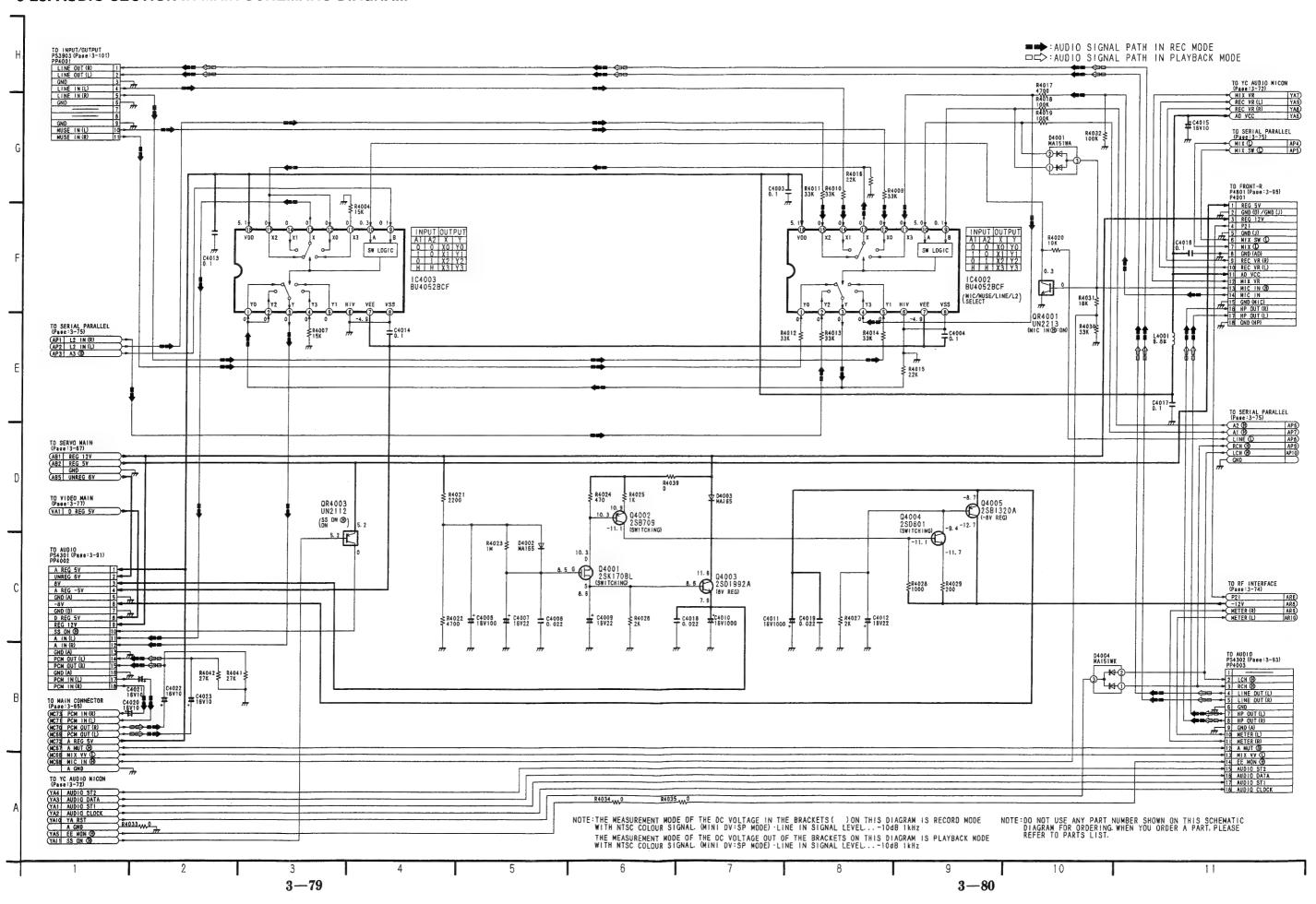
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

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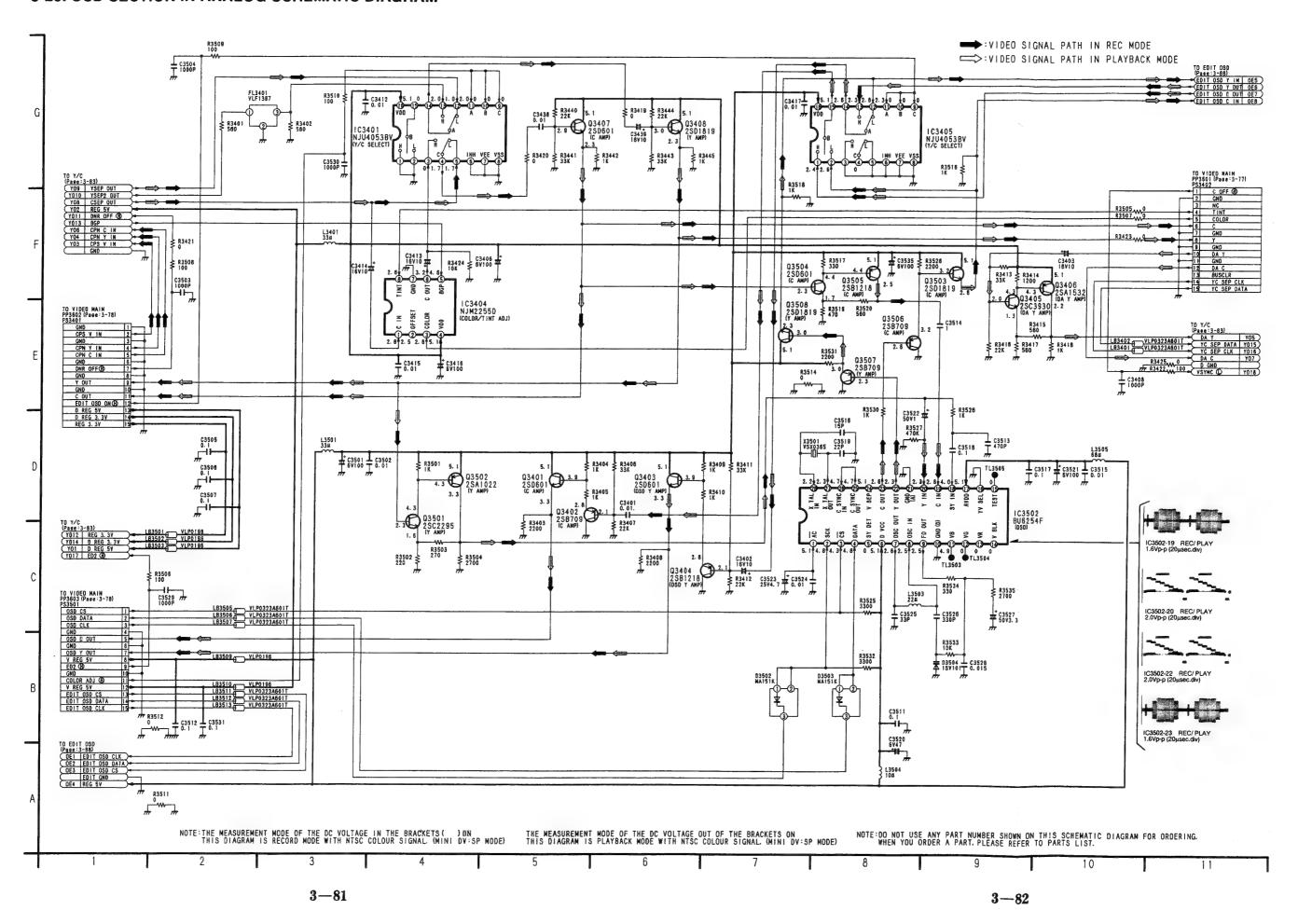
#### 3-27. VIDEO MAIN SECTION IN MAIN SCHEMATIC DIAGRAM

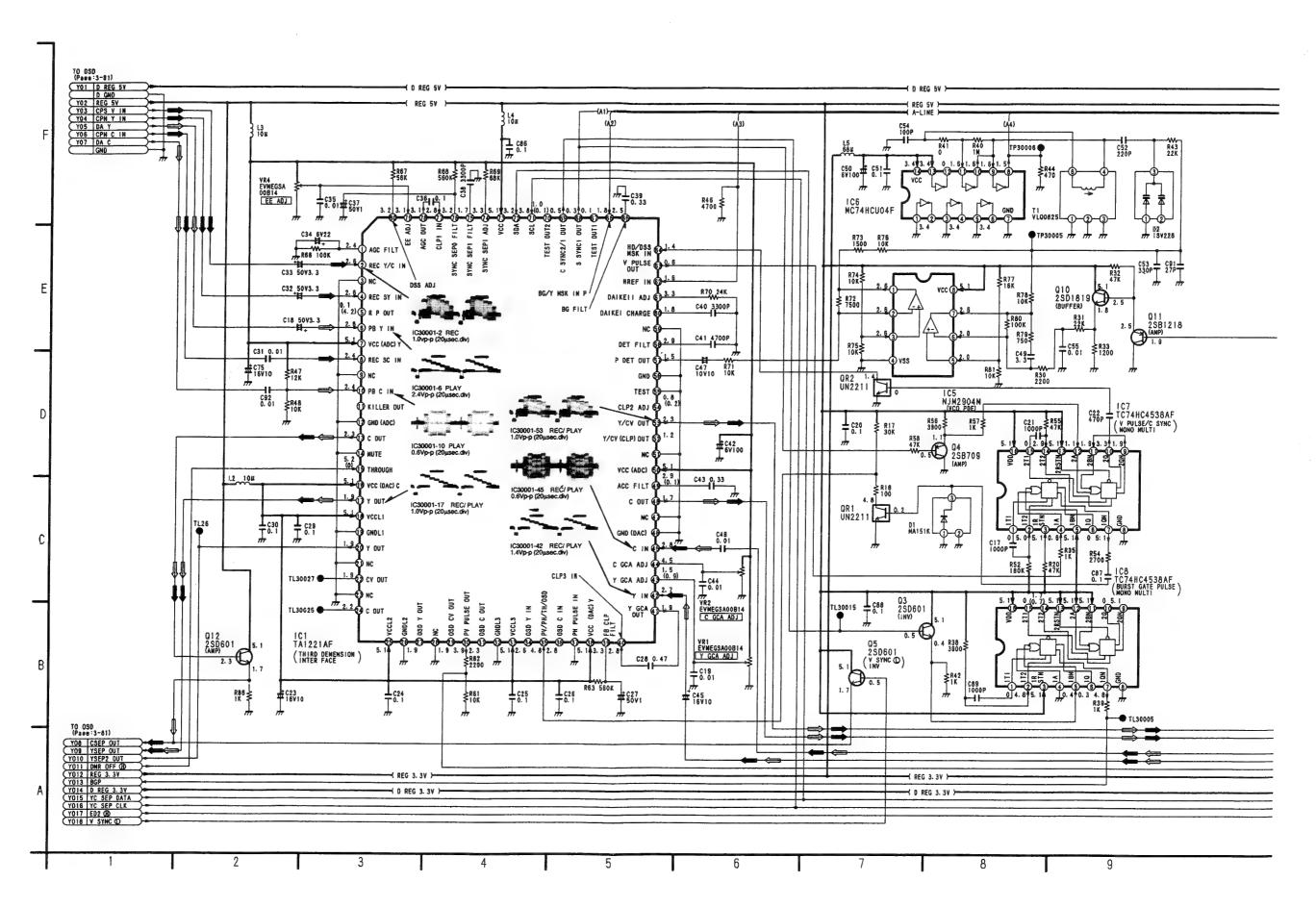


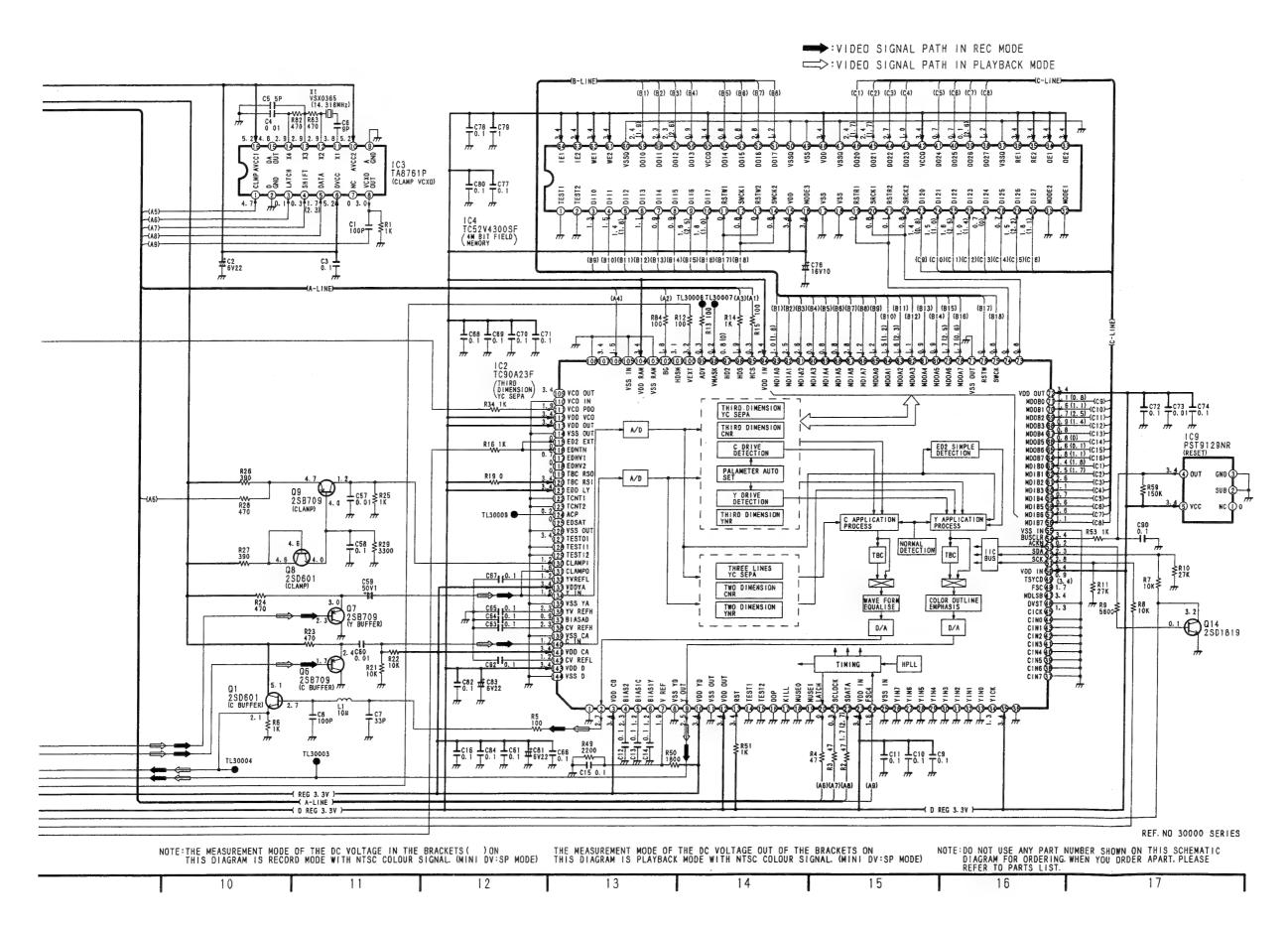
#### 3-28. AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM



#### 3-29. OSD SECTION IN ANALOG SCHEMATIC DIAGRAM

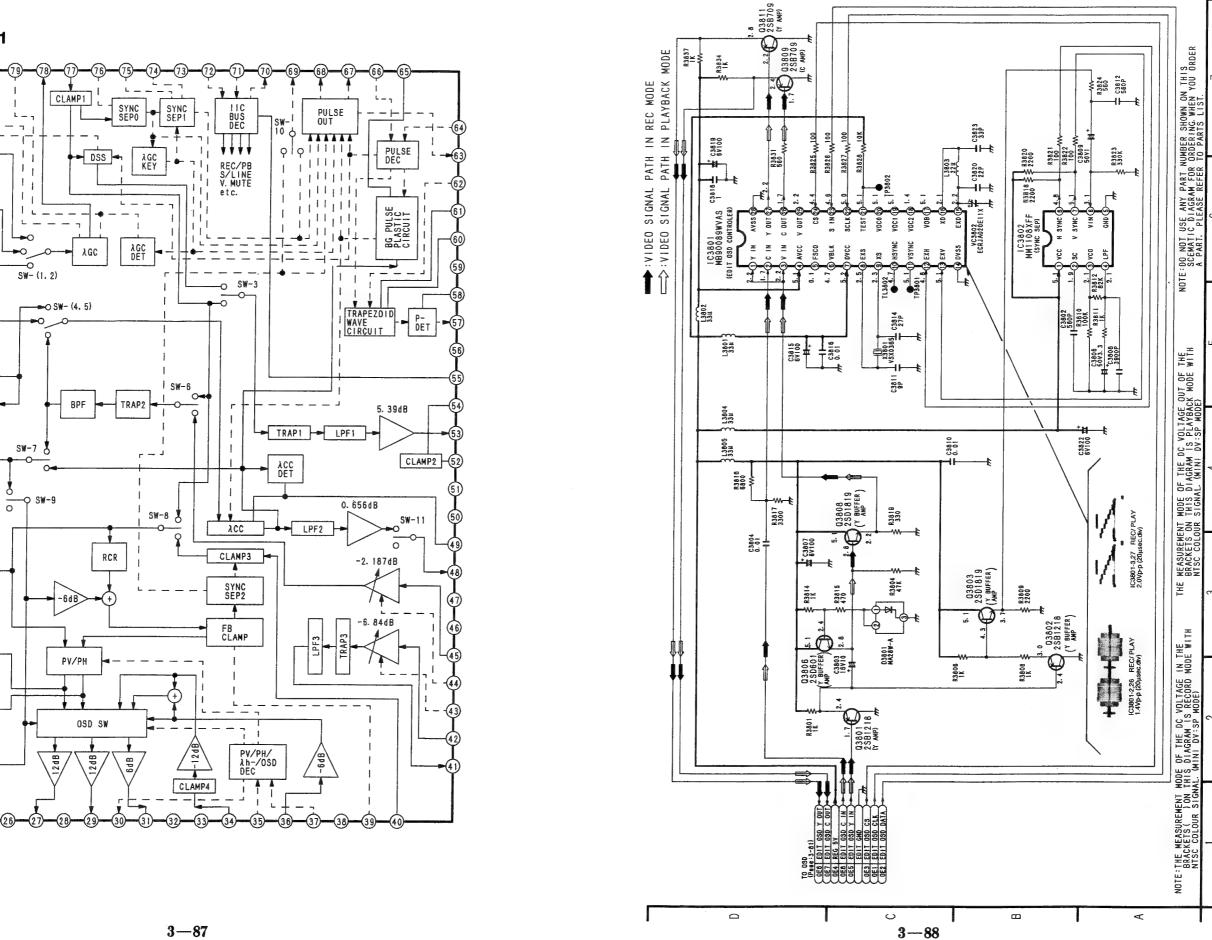






3-85

# 3-31. EDIT OSD IN ANALOG SCHEMATIC DIAGRAM



IC30001

KILLER OUT

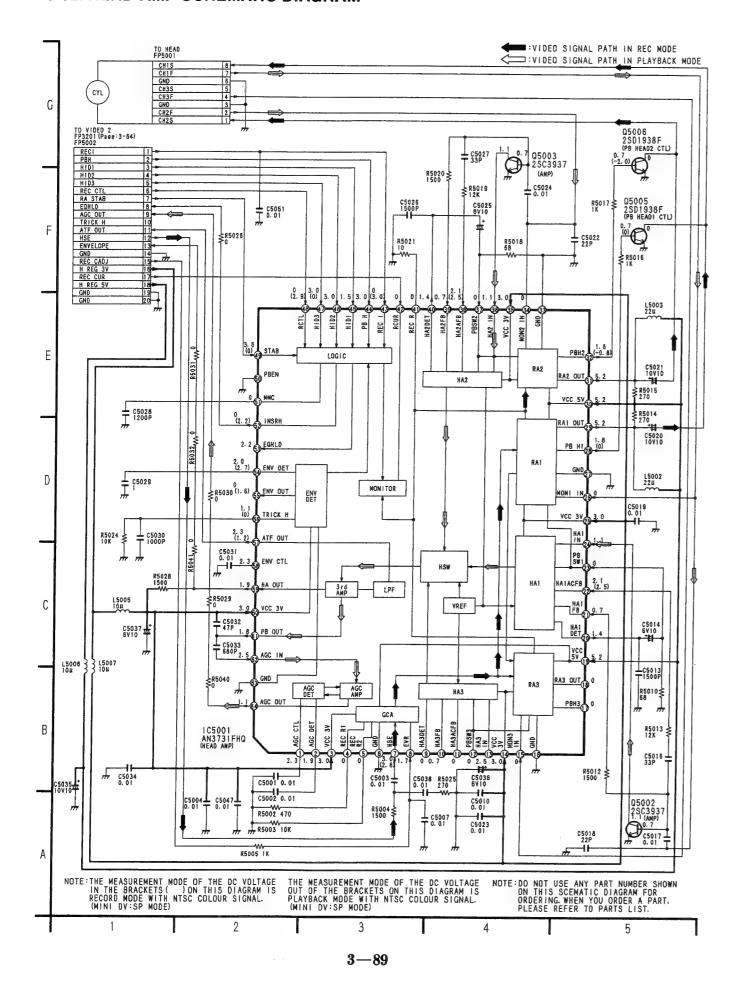
6dB

12dB

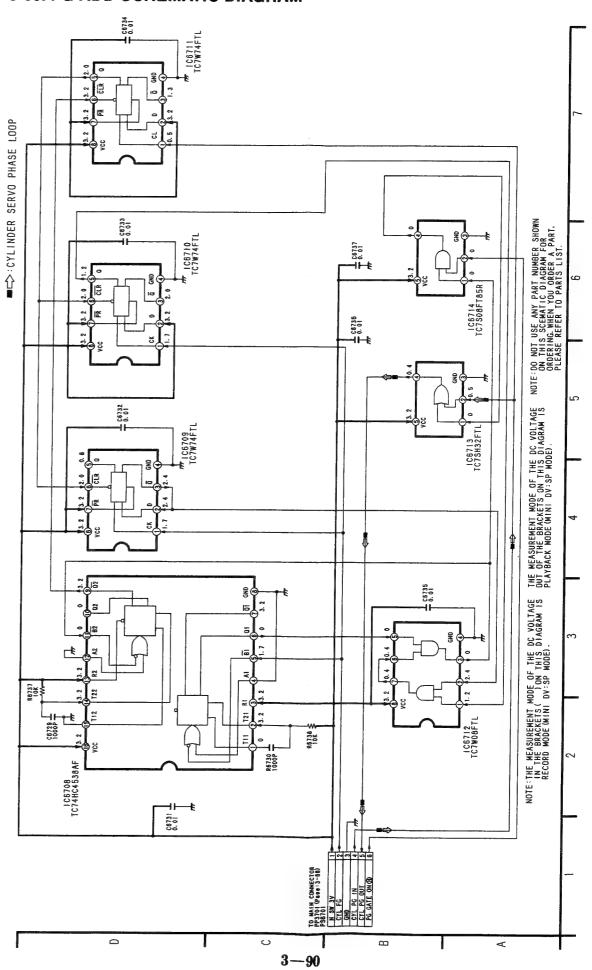
(12dB | -6dB

3-87

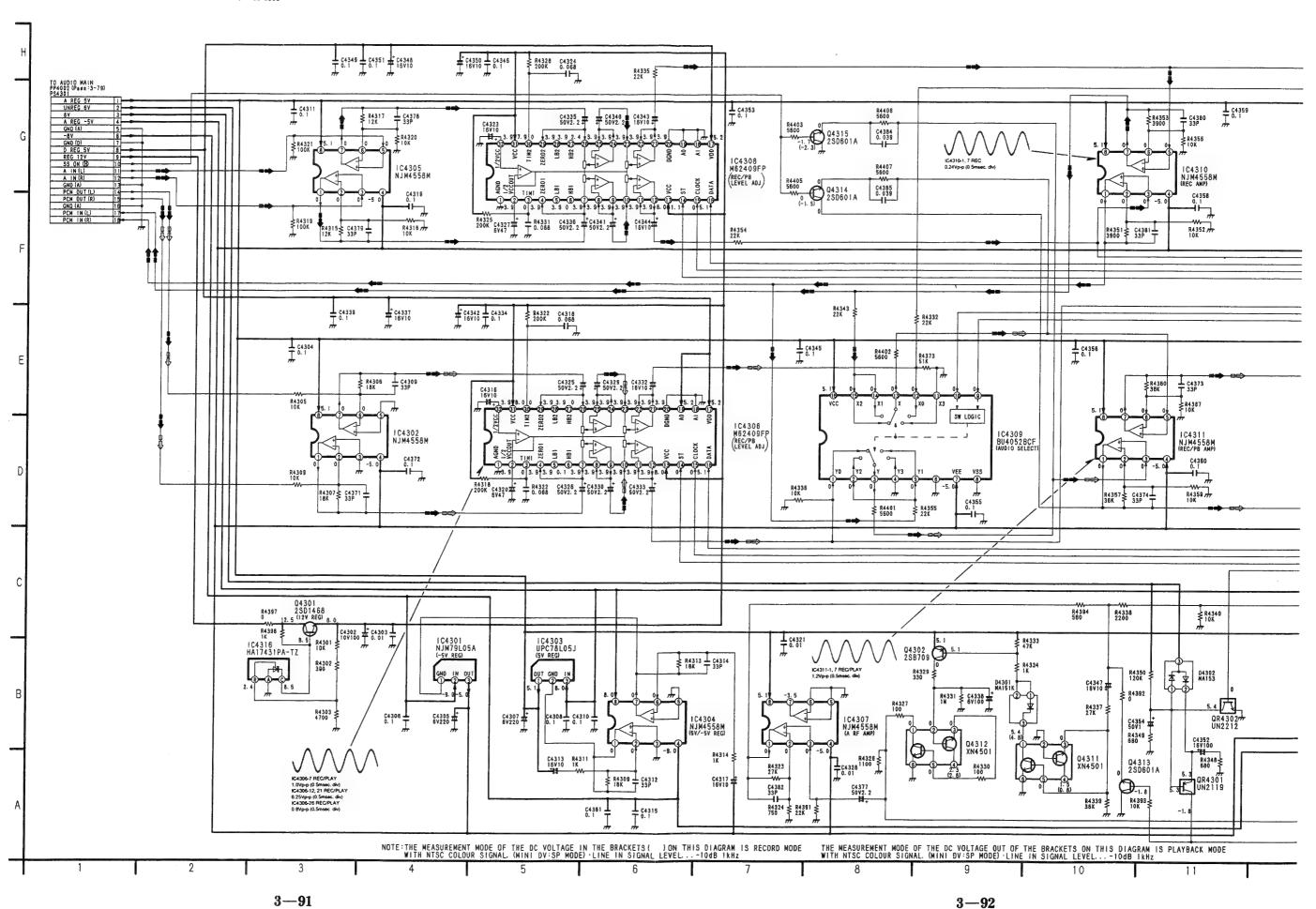
#### 3-32. HEAD AMP SCHEMATIC DIAGRAM



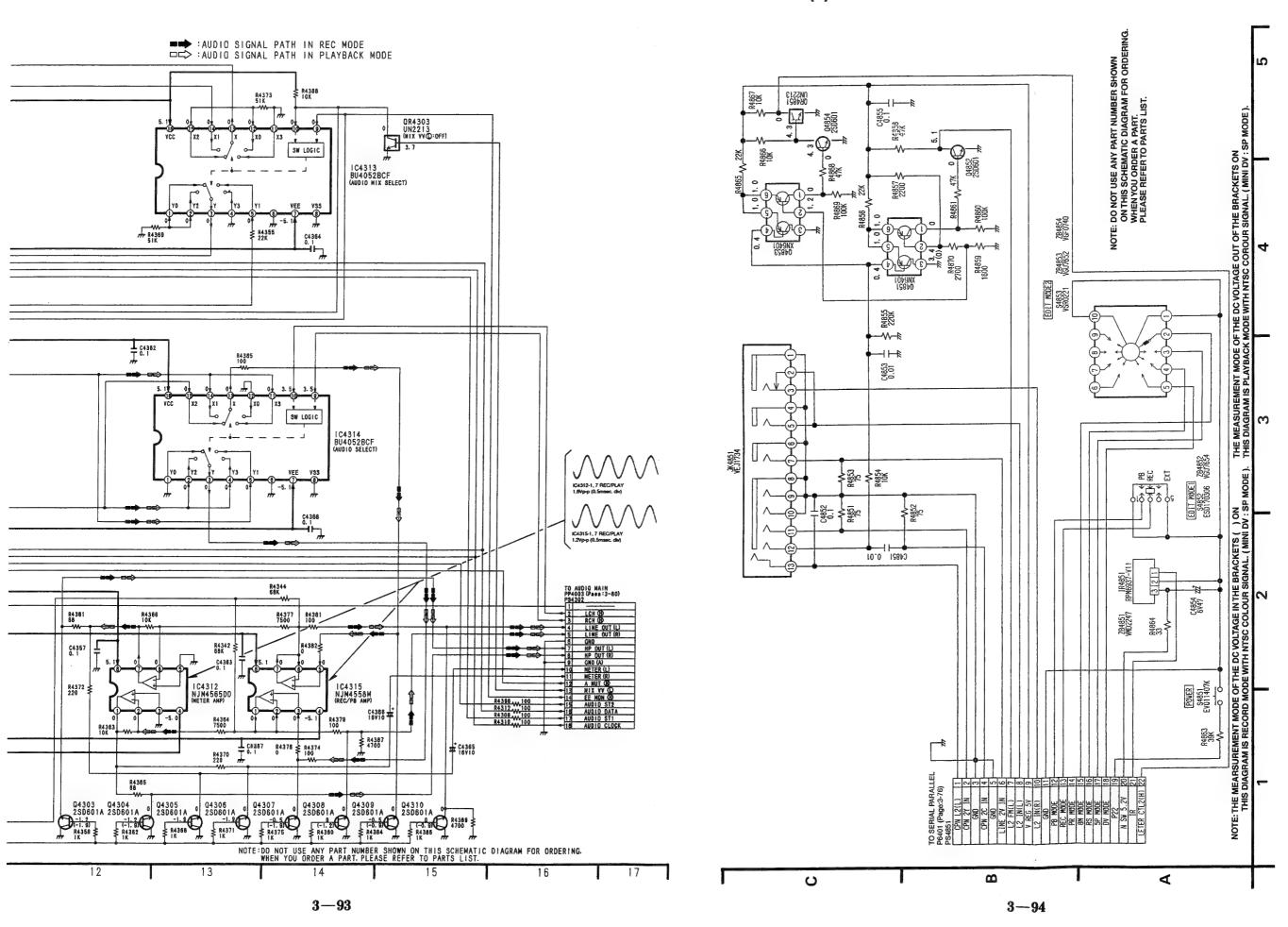
#### 3-33. PG ADD SCHEMATIC DIAGRAM



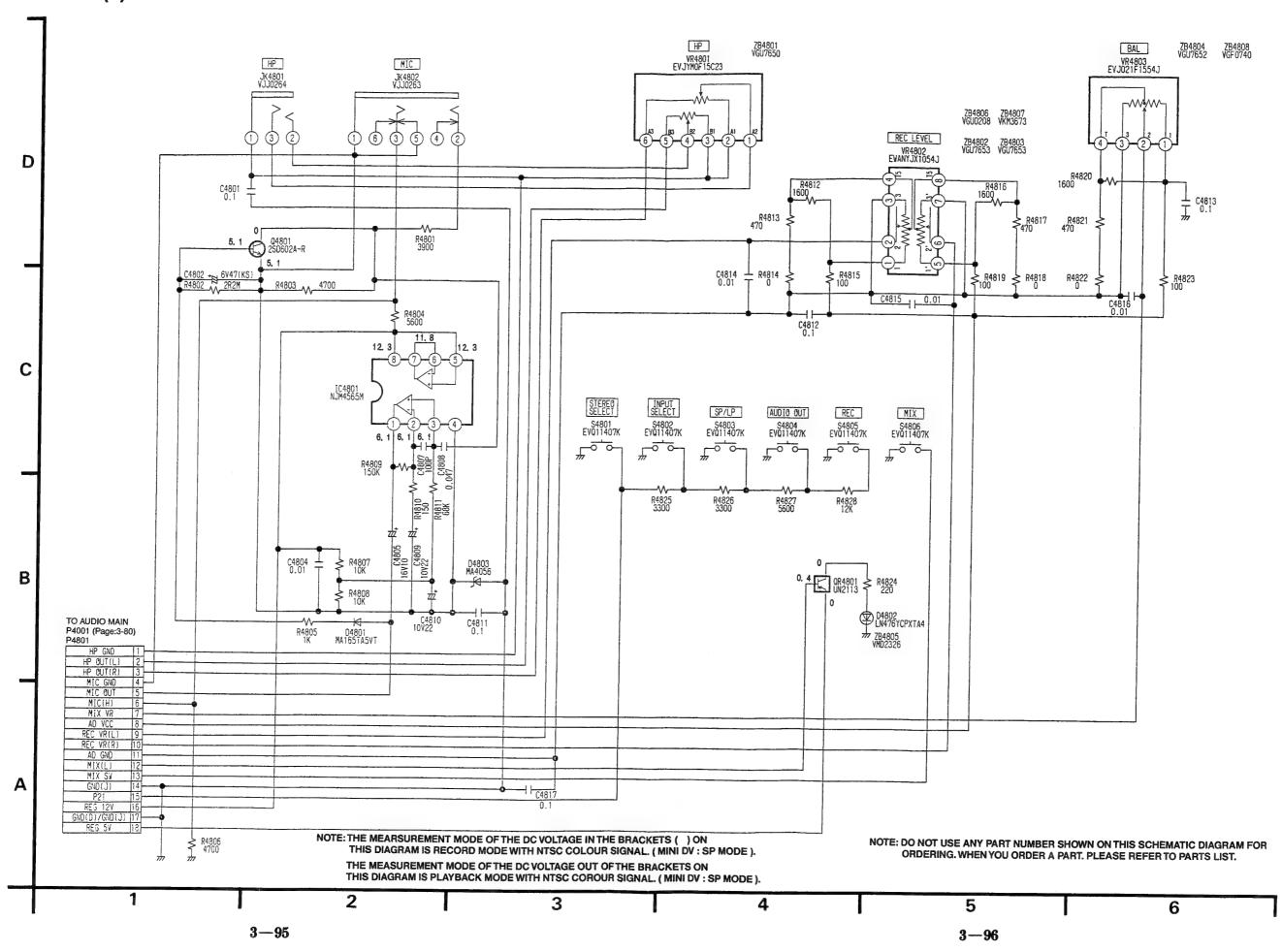
#### 3-34. AUDIO SCHEMATIC DIAGRAM



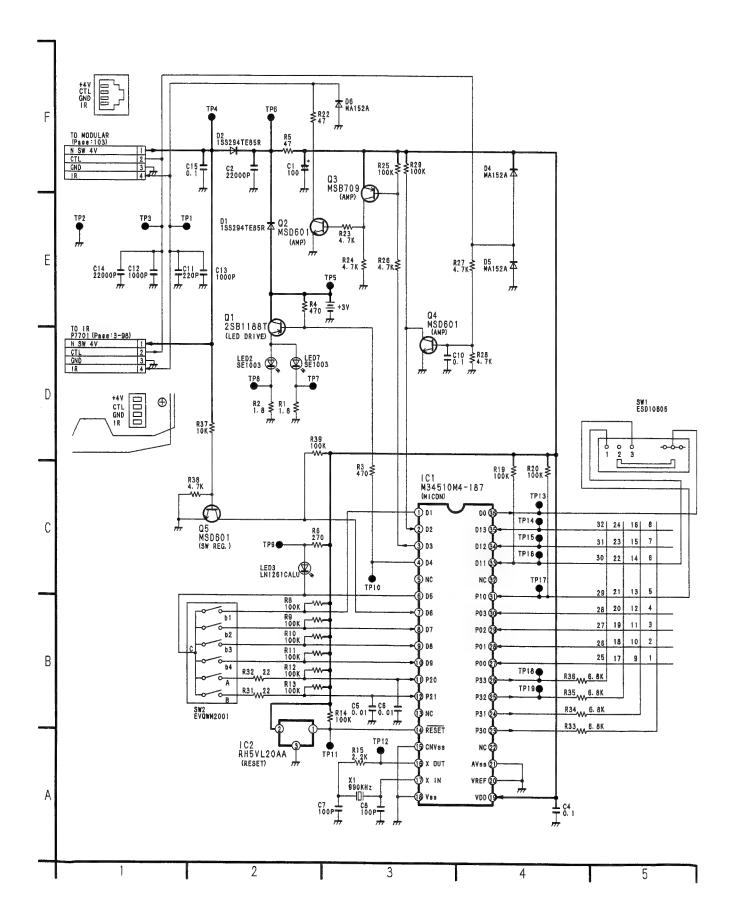
### 3-35. FRONT (L) SCHEMATIC DIAGRAM



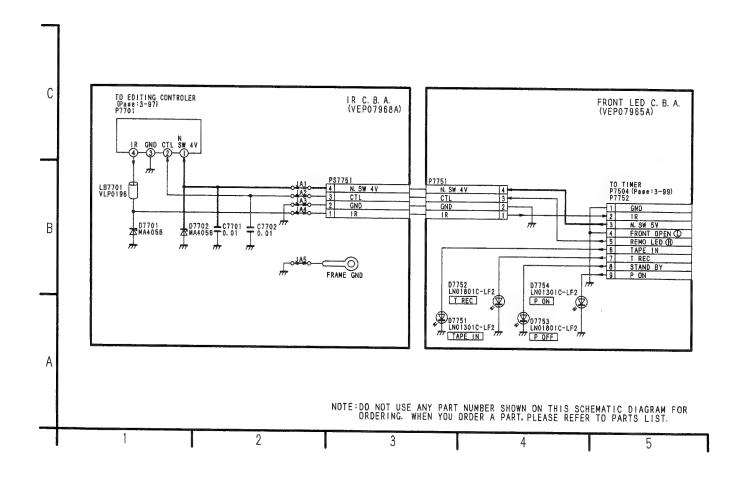
## 3-36. FRONT (R) SCHEMATIC DIAGRAM



#### 3-37. EDITING CONTROLLER SCHEMATIC DIAGRAM



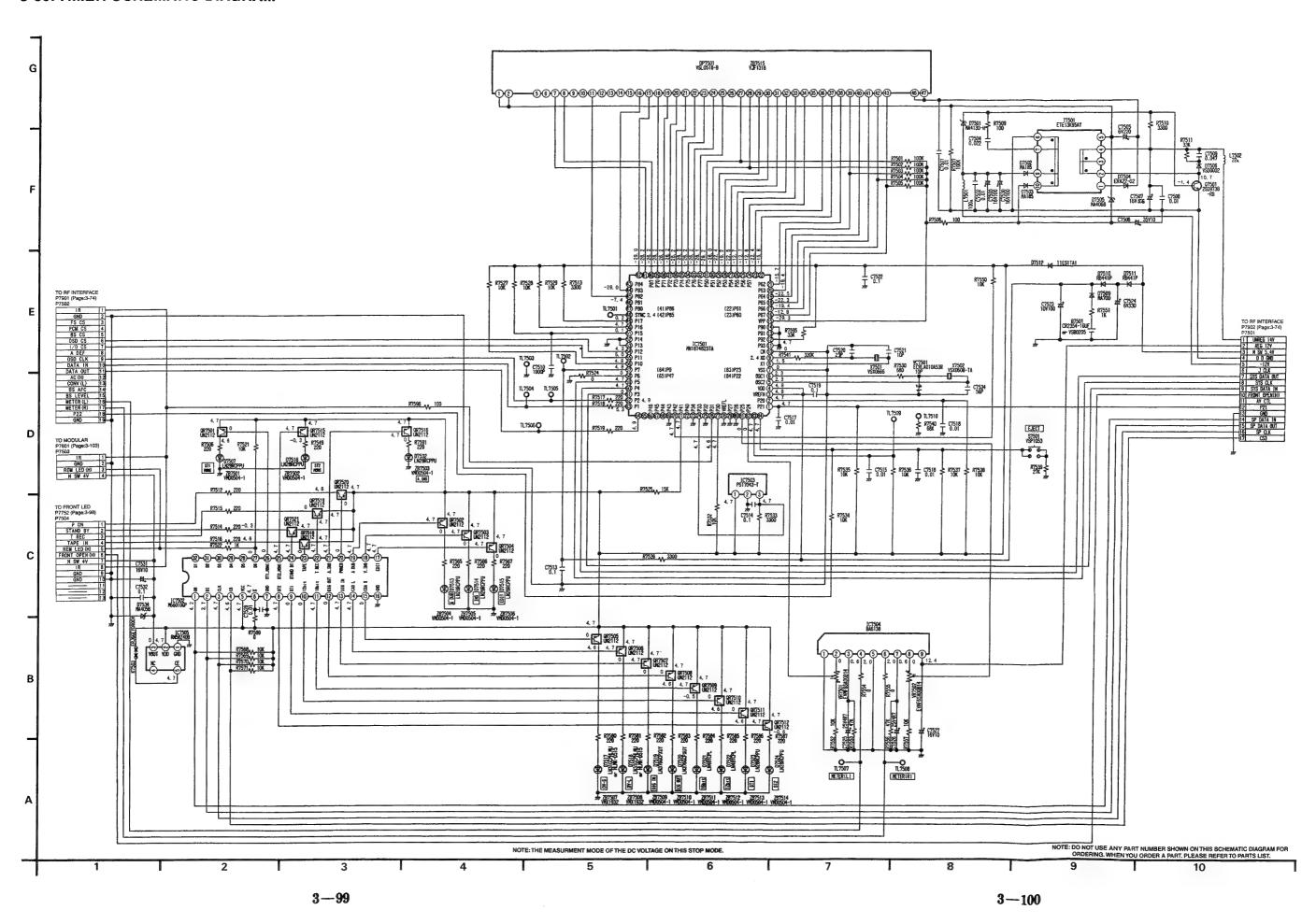
# 3-38. IR, FRONT LED SCHEMATIC DIAGRAMS



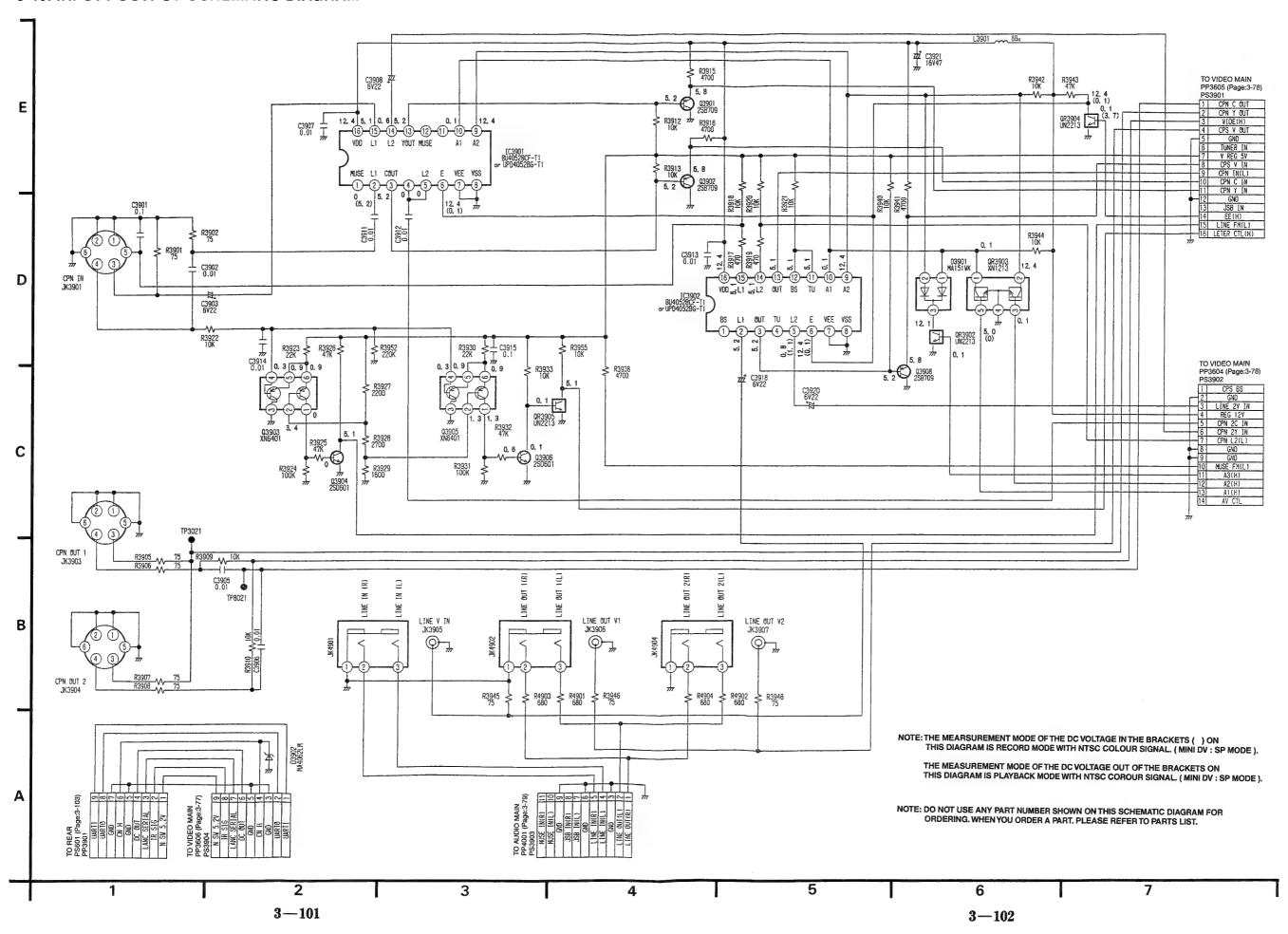
# IC7502 (M66010GP): SUB MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	DO	0	Serial Data	17	EDIT	0	LED ON Edit
2	ÐI		Serial Data	18	V INS	0	LED ON Video Insert
3	CLK	1	Serial Clock	19	A DUB	0	LED ON Audio Dubbing
4	CS		I/O Chip Select	20	POWER	0	LED ON Power
5	VCC			21	A INS	0	LED ON Audio Insert
6		I		22	TREC	0	LED ON Timer Rec
_ 7	GND	_		23	TAPE	0	LED ON Cassette In
8	ST2	0	LED ON Data Stereo 2	24	STAND BY	0	LED ON Stand By
9	ST1	0	LED ON Data Stereo 1	25	ST2 MONI	0	LED ON Monitor Stereo 2
10	12bit	0	LED ON 12 Bit	26	ST1 MONI	0	LED ON Monitor Stereo 1
11	16bit	0	LED ON 16 Bit	27	D6	0	LED ON
12	DIG OUT	0	LED ON DV Output	28	D5	_	NC
13	DIG IN	0	LED ON DV Input	29	D4		NC
14	CAS L	0	LED Normal Cassette	30	D3		NC
15	CASS	0	LED On Mini Cassette	31	D2	_	NC
16	GND	_		32	D1	_	NC

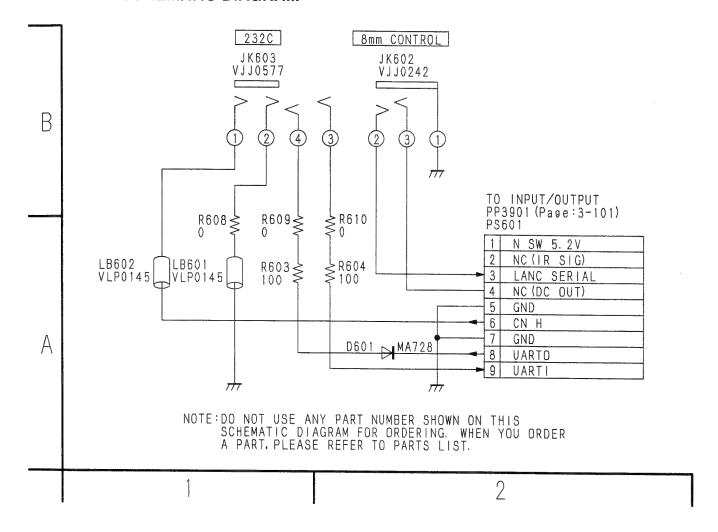
#### 3-39. TIMER SCHEMATIC DIAGRAM



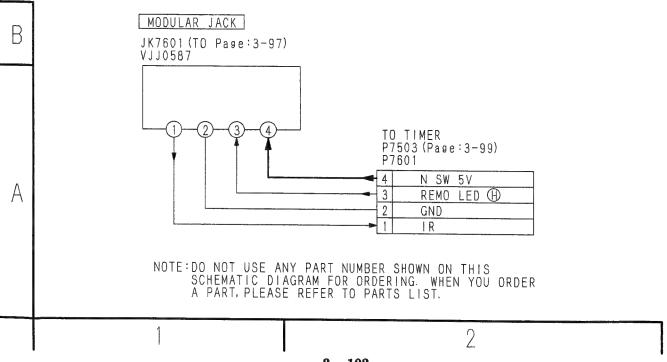
#### 3-40. INPUT / OUTPUT SCHEMATIC DIAGRAM



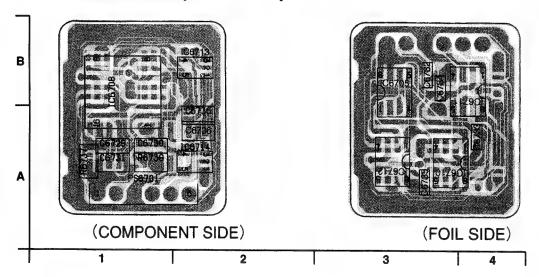
#### 3-41. REAR SCHEMATIC DIAGRAM



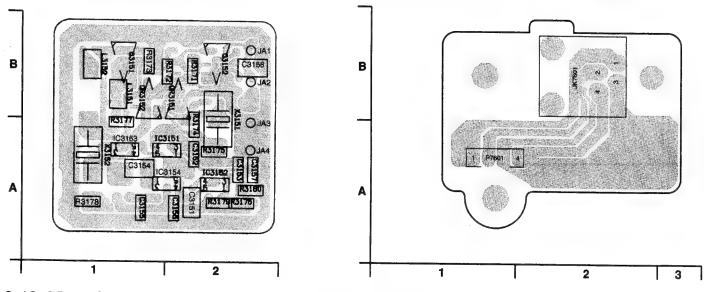
#### 3-42. MODULAR SCHEMATIC DIAGRAM



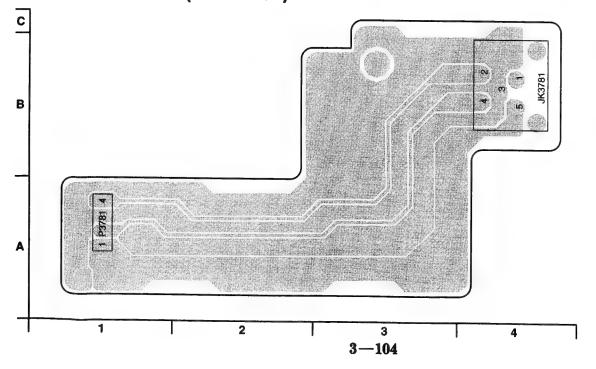
# 3-43. PG ADD C.B.A. (VEP06C59A)



# 3-44. CLOCK CHANGE C.B.A. (VEP03E78A) 3-45. MODULAR C.B.A. (VEP07966A)

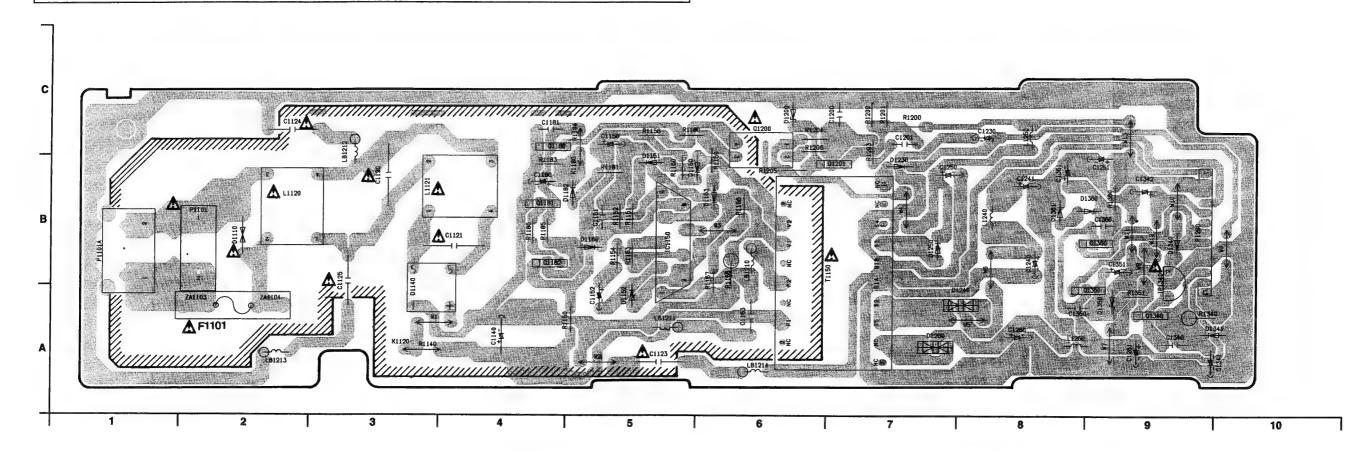


3-46. 5P JACK C.B.A. (VEP03E18A)

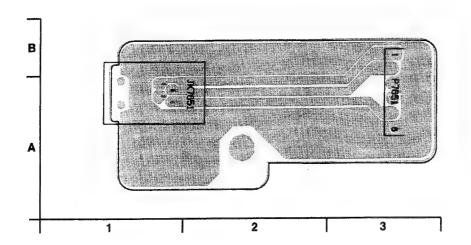


# 3-47. POWER SUPPLY C.B.A. (VEP01839A)

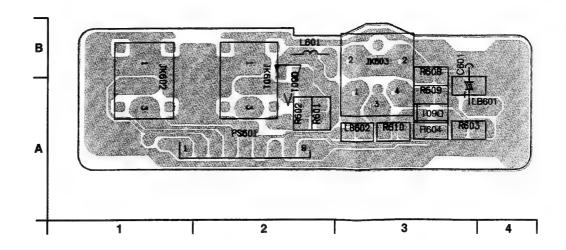
THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS. CAUTION



# 3-48. DV JACK C.B.A. (VEP07967A)

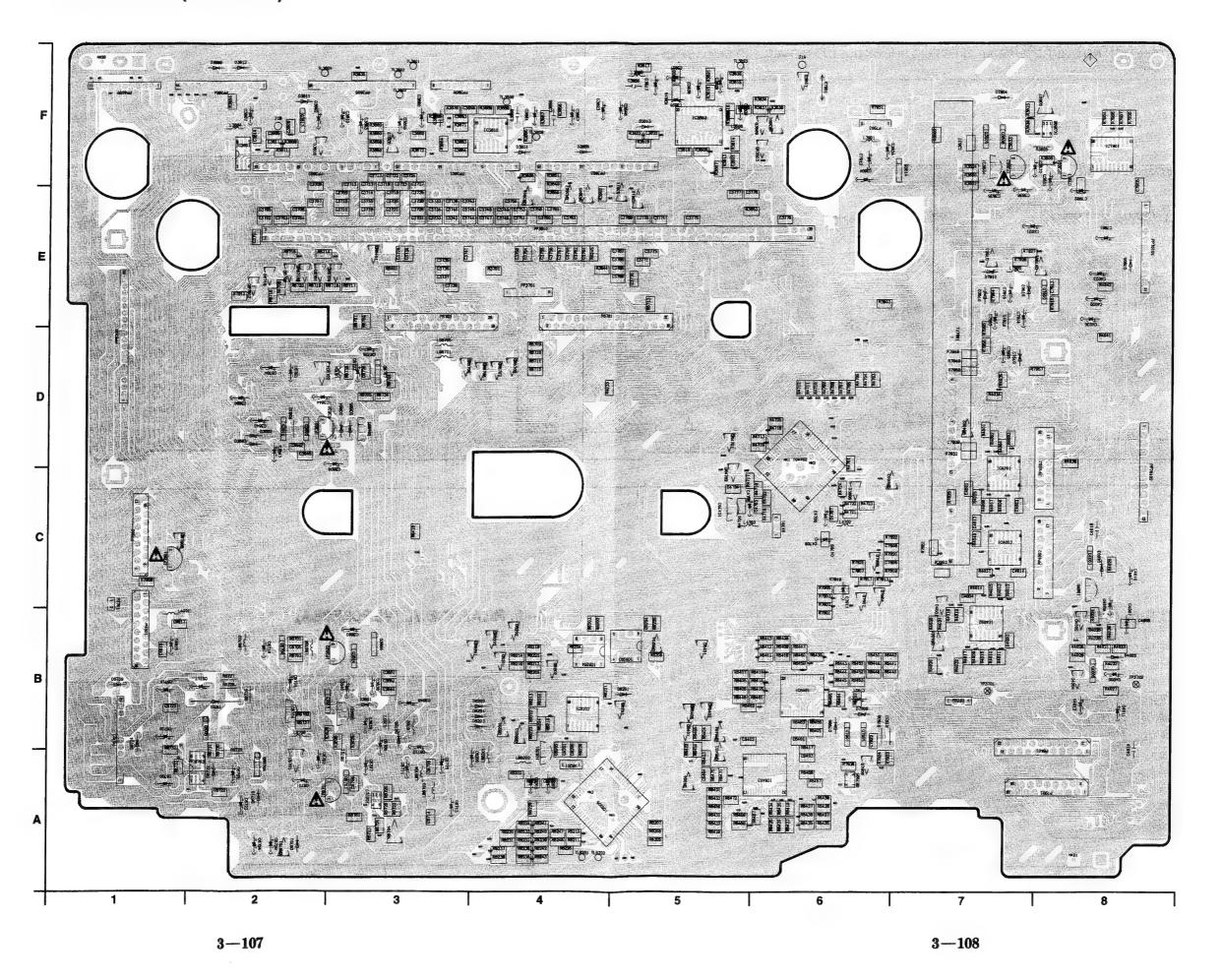


# 3-49. REAR C.B.A. (VEP03E08A)



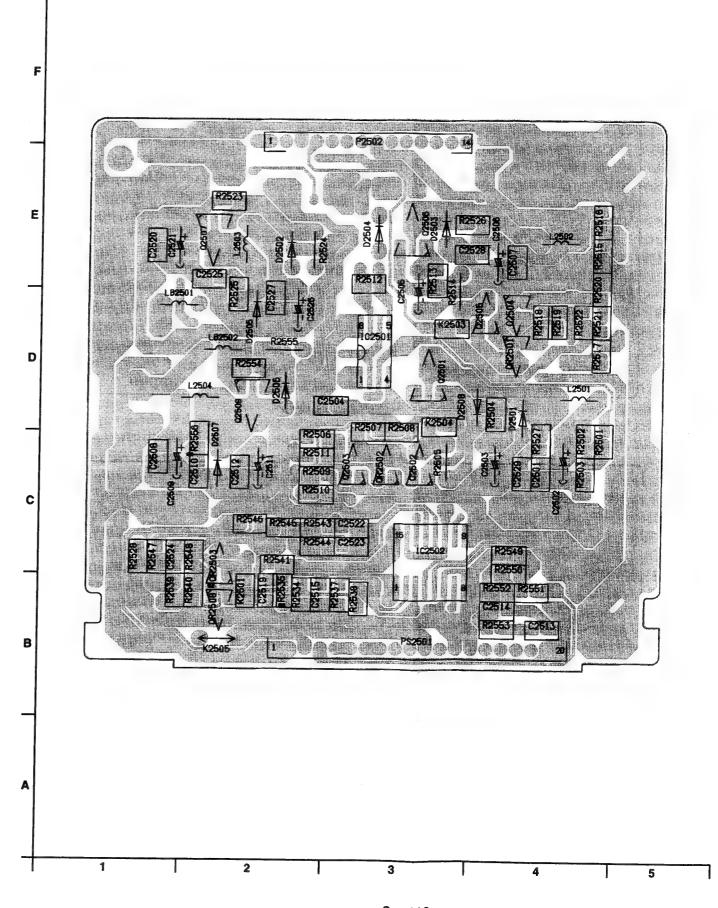
3 - 105

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				MAIN	C.B.A.				-
Transistor		Q6704	A-3	QR6401	E-3	IC4702	D-6	TP3702	B-8
Q3601	D-2	Q6705	B-2	QR6402	B-5	IC4703	C-5	Connector	
Q3602	D-2	Q6706	B-2	QR6403	A-5	IC6201	A-4	Comector	,
Q3603	B-3	Q6707	D-3	QR6404	B-5	IC6202	B-4	P3701	C-1
Q3604	B-3	Q7901	B-6	QR6405	B-5	IC6203	B-5	P4001	B-1
Q3605	F-7	Q7902	E-8	QR6701	A-2	IC6204	B-4	P6201	B-7
Q3606	F-7	Q7903	E-7	QR6704	A-2	IC6205	A-4	P6401	A-8
Q3607	F-8	Q7904	C-6	QR6705	D-4	IC6401	B-6	P6701	E-4
Q3608	B-3	Q7905	B-6	QR6706	D-4	IC6403	A-6	P6703	E-3
Q3609	F-6	Q7906	C-6	QR6707	D-4	IC6701	A-2	P6707	B-1
Q3610	E-5	Q7907	C-6	QR6708	D-3	IC6702	D-2	P7901	A-8
Q3611	E-5	Q7908	A-6	QR6709	E-3	IC6703	A-2	P7902	C-1
Q3612	F-3			QR6710	E-2	IC6704	B-2	P7903	F-6
Q3612 Q3613	F-2	Transistor & R	esistor	QR7901	E-7	IC6705	D-3	PP3601	F-3
Q3614	F-7	QR3601	F-6	QR7902	E-2	IC6707	A-3	PP3602	F-2
Q4001	C-8	QR3603	F-6	QR7905	A-6	IC7901	F-8	PP3603	F-4
Q4002	B-8	QR3604	E-4	QR7906	C-1			PP3604	F-2
Q4003	C-8	QR3607	E-4			Test Point		PP3605	F-3
Q4004	B-8	QR3609	E-4	Integrated Circ	uit	TL3601	5.0	PP3606	F-3
Q4005	B-8	QR4001	B-7	IC3601	F-2		F-3	PP3610	E-4
Q6201	B-4	QR4002	D-7	IC3603	F-5	TL3602 TL3603	F-3 F-3	PP3701	E-4
Q6202	B-4	QR4003	C-6	IC3604	F-7	TL3603		PP4001	F-1
Q6203	B-5	QR4701	D-5	IC3605	B-3	TL3604	F-2 F-4	PP4002	C-8
Q6204	B-4	QR4702	C-5	IC3606	F-8	TL3609	F-4	PP4003	C-8
Q6401	B-5	QR6201	B-4	IC3610	F-4			PP6706	D-1
Q6701	E-2	QR6202	B-4	IC4001	C-7	TL3623	F-5	PP70101	E-8
Q6702	E-2	QR6203	B-4	IC4001	B-7	TL6201	A-4	PP70102	C-8
Q6703	A-3	QR6204	B-5	IC4002	C-7	TL6202 TP3701	A-4 B-7		

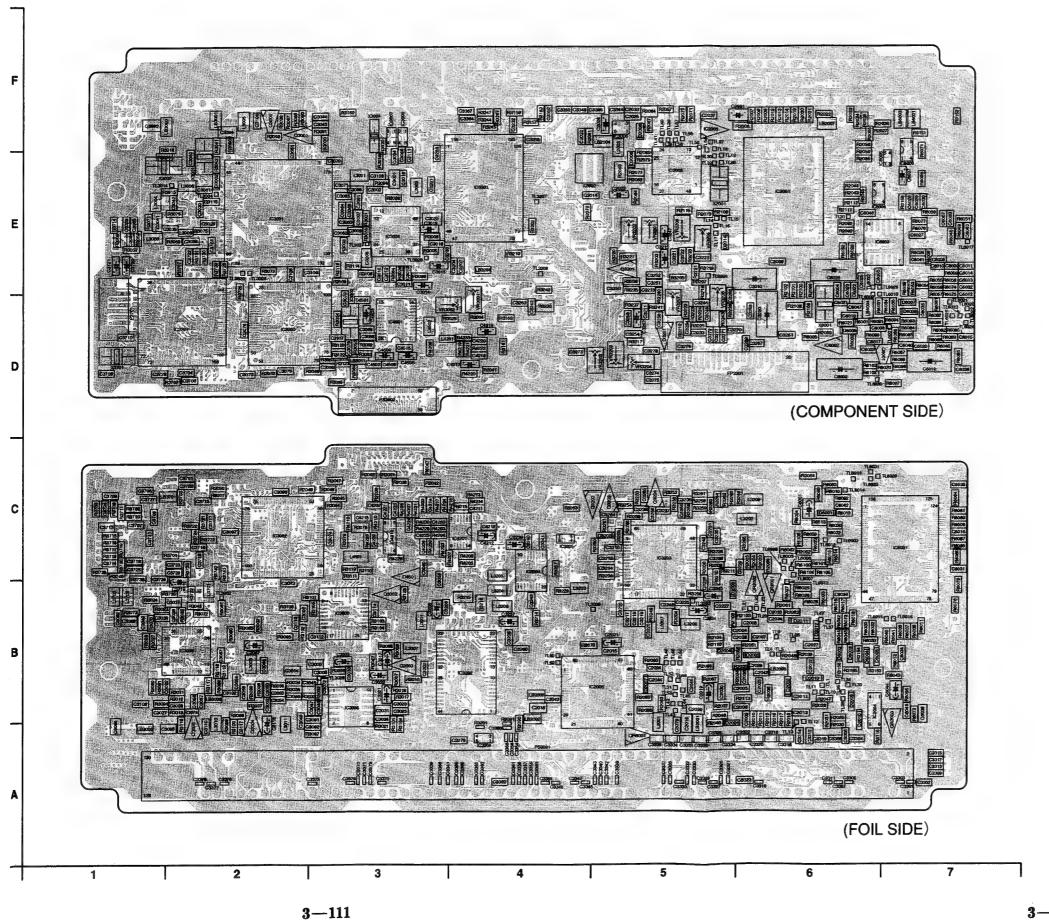
# 3-51. MOTOR DRIVE C.B.A. (VEP06C29A)



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# 3-52. DIGITAL C.B.A. (VEP03D98A)

NOTE: MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN
FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



DIGITAL C.B.A. (1)								
Transist	OF	TL16	E-5	<del></del>	Oscillator	C3002	E-3	
Q3001	F-2	TL17	E-5	X2001	E-5	C3003	B-3	
Q3002	F-2	TL18	F-5	X2002	E-4	C3004	B-2	
Q3003	B-3	TL19 TL20	F-5 B-6	X3003	D-3	C3005 C3006	B-3 B-3	
Q3004	A-2	TL21	B-6	X3004	F-3	C3007	E-3	
Q3005	A-2	TL22	B-6	X3701	D-1	C3008	E-3	
Q3201 Q3202	E-5	TL23	B-6	X6001	D-6	C3010	E-3	
Q3202	C-5 C-5	TL26	B-6	Coil		C3011	E-3	
Q3204	C-5	TL27	F-5	L2001	A-5	C3012	E-3	
Q6001	D-6	TL28	E-5 F-5	L2003	F-5	C3013	E-3	
Toppointer	& Resistor	TL30 TL31	E-6	L3001	E-3	C3014	E-3 E-3	
	1	TL32	E-5	L3002	E-3	C3016	E-3	
QR2001	1	TL33	B-6	L3003	B-2	C3017	8-3	
QR2002		TL34	B-6	L3004	E-1	C3018	E-3	
QR2003 QR6001	1	TL35	B-6	L3006	E-2 B-3	C3019	E-3	
	1	TL36	B-6	L3007 L3008	E-1	C3020	E-3	
Integrate	d Circuit	TL37 TL38	B-6 F-5	L3009	E-2	C3021 C3023	B-3 B-3	
IC2001	E-6	TL39	F-5	L3011	A-2	C3024	E-3	
IC2002	E-5	TL40	F-5	L3201	B-3	C3025	B-3	
IC2003	F-5	TL41	F-5	L3202	C-6	C3026	E-2	
IC2004	B-6	TL42	B-5	L3203	B-4	C3027	B-1	
IC2005	B-5	TL43	B-5	L3204	B-4 C-4	C3028	B-2	
IC2006 IC3001	F-5 E-2	TL44	B-5	L3205 L3206	B-5	C3029	E-1	
IC3001	C-2	TL45 TL46	B-5 B-5	L3207	B-5	C3030 C3031	E-2 B-3	
IC3003	D-2	TL46	B-6	L3208	B-4	C3031	B-3 B-3	
IC3004	E-3	TL48	B-5	L3209	C-6	C3032	B-3	
IC3005	B-2	TL49	B-5	L3701	B-2	C3034	B-3	
IC3006	B-3	TL50	B-5	L3702	B-1	C3035	E-2	
IC3007	F-3	TL51	B-5	L3703 L4201	B-1	C3036	E-2	
IC3009 IC3201	F-3 E-4	TL52	B-5	L4201	D-3 C-3	C3037	B-2	
IC3202	B-4	TL53 TL54	B-5 F-5	L4502	D-3	C3038 C3039	B-2 B-1	
IC3203	C-5	TL55	F-5	LB2001	A-5	C3040	B-1	
IC3204	C-4	TL56	F-5	LB2002	B-4	C3041	E-1	
IC3205	C-4	TL57	F-5	LB2004	F-5	C3042	E-2	
IC3701	D-2	TL58	F-5	LB2005	B-6	C3043	F-3	
IC4201	C-4	TL59	B-4	LB2006	1	C3044	F-3	
IC4210 IC4501	C-3 D-3	TL60	B-4	LB2007	F-6 F-2	C3045	B-2	
IC6001	C-7	TL3002	B-2	LB3001	A-1	C3046	B-3	
IC6002	D-6	TL3004	E-2	LB3003	F-1	C3047	B-3	
IC6003	E-6	TL3006 TL3014	B-5 E-1	LB3006	B-2	C3048 C3049	A-2 B-2	
IC6004	E-5	TL3020	E-2	LB3011	D-3	C3050	8-2	
IC6005	E-6	TL3024	E-2	LB3201	E-4	C3051	F-2	
1C6006	E-7	TL3026	E-3	LB3701	C-1	C3052	B-2	
Diode		TL3027	E-3	LB6001	F-7	C3053	B-2	
	0.5	TL3028	E-3	LB6003 LB6004	F-7 D-6	C3054	B-2	
D2001 D2003	B-5 B-5	TL3201	E-5	LD0004	0-0	C3055	B-2	
D2004	B-5	TL3202	B-5 E-4	Capacito	r	C3056 C3057	B-2 B-2	
D2005	B-6	TL3208	E-4	C2001	F-5	C3058	B-2	
D2006	E-5	TL6001	D-7	C2002	B-6	C3059	B-3	
D2007	B-5	TL6002	C-6	C2003	B-6	C3062	E-3	
D2008	F-5	TL6005	C-6	C2004	B-6	C3063	E-3	
D2009	B-6	TL6006	C-6	C2005	B-6	C3064	E-3	
D2010 D2011	B-6 B-6	TL6007	C-6	C2006	B-6	C3065	E-3	
D2011	B-6	TL6008	C-6 E-6	C2007 C2008	B-6 B-6	C3066 C3067	B-2 B-2	
D2013	B-6	TL6010	E-7	C2008	E-6	C3067	E-3	
D2014	E-5	TL6012	B-6	C2010	E-6	C3069	E-3	
D3002	E-2	TL6013	C-6	C2011	B-6	C3070	E-3	
D3003	B-3	TL6014	C-6	C2012	B-6	C3071	E-3	
D3201	D-5	TL6015	B-6	C2013	B-6	C3072	B-3	
D3203 D4501	C-5	TL6016	B-7	C2014	E-4	C3073	B-2	
D4501 D6001	C-3 C-6	TL6017	E-7	C2015	B-5	C3074	C-3	
D6002	B-6	TL6018 TL6020	C-6 D-7	C2016 C2018	B-5 B-4	C3075 C3076	D-2 D-2	
D6003	B-6	TL6021	D-7	C2018	B-5	C3076	D-2	
D6004	B-6	TL6022	D-7	C2020	B-5	C3078	D-3	
D6005	B-6	TL6023	D-7	C2021	B-5	C3079	D-3	
D6007	D-7	TL6024	D-7	C2022	F-4	C3080	C-3	
D6008	D-7	TL6025	D-7	C2023	E-5	C3081	E-3	
Test Poin	t	TL6026	E-7	C2024	B-5	C3082	B-1	
		TL6029	C-6	C2025	F-5	C3083	B-1	
TL1   TL4	B-6 B-6	TL6030 TL6031	D-6 C-6	C2026 C2027	F-5	C3084 C3085	E-1 E-1	
TL5	B-6	TL6031	E-6	C2027	B-6 B-6	C3085	E-3	
TL9	B-6	TL6033	C-6	C2029	B-6	C3087	8-2	
TL10	B-6			C2030	B-5	C3090	D-3	
TL11	B-6	Connecto	H	C2042	B-6	C3091	B-3	
TL12	B-6	FP3201	D-5	C2043	B-4	C3092	A-3	
TL13	B-6	P3701	D-1	C2044	B-5	C3093	F-1	
TL14	E-5	PS3001	A-4	C2045	B-5	C3094	F-2	
TL15	E-5	PS3002	D-3	C3001	E-3	C3095	A-1	

ADDRESS INFORMATION

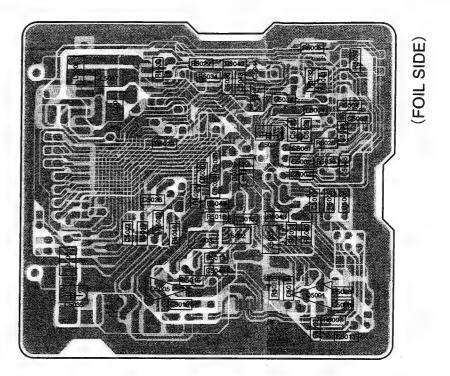
	T	Tarin	1	T	Te:	l e		. C.B.A. (2		1.	Τ.	1 -	1.	T	1
C3096	A-1	C3309	A-7	C3718	C-2	R2019	F-6	R3018	B-3	R3201	A-4	R3740	C-1	R6064	C-7
3097	C-2	C3310	A-6	C3719	B-2	R2020	F-6	R3019	E-3	R3202	E-4	R4203	C-3	R6065	D-7
3098	C-2	C3311	A-6	C3720	E-1	R2021	F-6	R3020	F-3	R3203	E-5	R4204	C-3	R6066	D-7
3099	B-2	C3312	A-6	C3721	E-1	R2022	F-6	R3021	A-3	R3204	B-5	R4205	C-4	R6067	D-7
3100	E-2	C3313	A-7	C3722	E-2	R2023	F-6	R3022	B-2	R3205	E-5	R4206	C-4	R6068	D-7
3101	E-2	C3314	A-6	C3723	C-2	R2024	F-6	R3023	B-1	R3206	B-5	R4207	C-3	R6069	D-7
3102	B-2	C3315	A-7	C3724	C-1	R2025	F-6	R3024	B-1	R3207	E-5	R4208	D-3	R6070	D-6
3103	E-3	C3316	A-6	C3725	C-1 C-1	R2026	F-6	R3025	D-3	R3208	C-5	R4209	C-3	R6071	F-7
3106	E-2	C3317	A-7	C3727		R2027	F-6	R3026	E-3	R3209	C-5	R4210	C-3	R6072	B-7
3107	D-3	C3318	A-6	C4203	C-3	R2028	B-6	R3027	B-1	R3210	C-5	R4213	C-4	R6073	B-6
3108	B-1	C3319	A-6	C4206	C-3	R2029	B-6	R3028	B-1	R3211	C-5	R4214	C-4	R6074	E-7
3111	E-3	C3320	A-6	C4207	C-3	R2030	B-6	R3030	F-3	R3212	D-5	R4215	C-4	R6075	E-7
3116	A-2	C3321	A-5	C4211	C-4	R2031	B-6	R3031	F-3	R3213	E-4	R4216	C-3	R6076	E-7
3117	A-2	C3322	A-6	C4212	C-4	R2032	B-6	R3032	B-3	R3214	B-4	R4217	C-3	R6077	E-7
3201	E-3	C3323	A-6	C4213	C-4	R2034	B-6	R3033	B-2	R3215	8-4	R4218	C-3	R6078	B-7
3202	B-3	C3324	A-5	C4214	C-3	R2035	B-6	R3034	B-2	R3217	D-5	R4219	D-4	R6079	B-7
3203	E-3	C3325	A-5	C4215	C-3	R2036	B-6	R3035	B-2	R3218	E-5	R4220	D-4	R6080	C-7
3204	E-4	C3326	A-5	C4217	D-4	R2037	B-5	R3036	B-2	R3219	E-5	R4221	D-4	R6081	D-7
3205	B-3	C3327	A-5	C4218	D-4	R2038	C-3	R3037	B-2	R3220	E-5	R4222	D-4	R6082	D-7
3206	B-3	C3328	A-5	C4219	D-4	R2039	C-3	R3038	B-2	R3221	E-5	R4223	C-3	R6083	D-7
3207	E-4	C3329	A-5	C4220	D-4	R2040	B-5	R3039	B-2	R3222	D-5	R4224	C-3	R6084	D-7
3208	B-4	C3330	A-5	C4221	C-3	R2042	C-3	R3042	E-2	R3223	D-5	R4225	C-3	R6085	D-7
3209	C-5	C3331	A-5	C4222	C-3	R2045	E-6	R3043	B-2	R3224	D-5	R4226	C-3	R6086	D-7
3210	C-5	C3332	A-5	C4223	C-3	R2046	B-5	R3044	C-3	R3225	D-5	R4227	C-3	R6087	C-7
3211	D-5	C3333	A-5	C4224	C-3	R2047	B-6	R3046	C-3	R3226	C-5	R4228	C-3	R6088	C-7
3212	C-5	C3334	A-5	C4225	C-3	R2048	B-6	R3047	C-3	R3227	E-5	R4229	C-3	R6089	C-6
3213	E-5	C3335	A-5	C4501	D-3	R2049	E-5	R3048	D-3	R3228	D-5	R4230	C-3	R6090	D-6
3214	C-5	C3336	A-5	C4502	D-3	R2050	D-6	R3049	C-2	R3229	B-4	R4231	C-3	R6091	D-6
3215	E-5	C3337	A-5	C4503	D-3	R2051	B-6	R3050	C-2	R3230	D-4	R4232	C-3	R6092	C-6
3216	B-5	C3338	A-5	C4504	D-3	R2052	C-6	R3051	C-2	R3233	E-5	R4233	D-4	R6093	C-6
3217	B-5	C3339	A-3	C4505	D-3	R2055	F-6	R3052	D-2	R3234	C-5	R6001	D-6	R6094	D-7
3218	B-5	C3340	A-5	C4506	D-3	R2056	B-6	R3053	D-3	R3235	E-5	R6003	B-6	R6095	B-7
3219	B-5	C3341	A-3	C4515	D-3	R2057	F-5	R3054	D-3	R3236	E-5	R6006	C-7	R6096	D-7
3220	B-5	C3342	A-5	C6001	C-6	R2058	F-6	R3055	E-3	R3237	D-5	R6008	E-7	R6097	D-7
3221	E-5	C3343	A-5	C6002	D-6	R2059	F-6	R3057	E-1	R3238	C-5	R6009	C-6	R6098	D-7
3222	E-5	C3344	F-5	C6003	D-6	R2060	E-6	R3058	E-1	R3239	C-5	R6010	C-6	R6099	E-7
3223	E-5	C3345	A-4	C6004	E-6	R2061	B-6	R3060	B-1	R3240	D-5	R6011	B-7	R6100	C-6
3224	B-5	C3346	F-5	C6005	E-6	R2062	B-6	R3061	B-1	R3241	D-5	R6012	B-7	R6101	C-6
3225	B-5	C3347	A-4	C6006	E-7	R2063	B-5	R3064	E-3	R3242	E-4	R6013	C-6	R6102	D-6
3226	B-5	C3348	F-4	C6007	E-7	R2064	F-5	R3065	B-2	R3243	D-5	R6014	C-6	R6103	D-6
3227	B-5	C3349	A-4	C6008	D-6	R2065	E-6	R3066	E-3	R3245	F-4	R6015			
3227	C-5	C3349	F-4	C6009	E-7	R2065	B-5	R3066	F-2	R3245			C-6	R6105	C-6
	C-6	C3350	1	C6009	E-7			1		1	B-5	R6016	B-6	R6106	C-6
3229			A-4		1	R2067	B-5	R3068	F-2	R3250	C-5	R6017	B-6		İ
3230	C-5	C3352	F-4	C6011	E-7	R2070	F-5	R3069	E-2	R3251	C-5	R6018	B-6		ļ
3231	C-5	C3353	A-4	C6012	E-7	R2071	F-5	R3070	B-1	R3252	C-5	R6019	C-6	1	1
3232	F-4	C3354	A-4	C6015	D-7	R2073	E-5	R3072	B-2	R3253	C-5	R6020	C-6		
3233	D-5	C3355	A-4	C6017	D-6	R2074	E-4	R3073	B-1	R3254	C-5	R6021	D-6		
3234	D-5	C3356	A-4	C6018	D-6	R2076	B-4	R3074	B-2	R3255	C-5	R6022	C-6		
3235	C-5	C3357	A-4	C6019	D-7	R2077	E-5	R3075	E-2	R3257	C-4	R6023	C-6		
3236	D-5	C3358	A-4	C6020	D-7	R2079	E-5	R3077	E-2	R3258	C-5	R6024	E-7		
3237	C-5	C3359	A-4	C6021	D-6	R2080	B-5	R3079	C-3	R3259	C-5	R6025	B-6	į l	
3238	C-5	C3360	A-4	C6022	E-6	R2081	F-4	R3080	B-2	R3260	C-5	R6026	B-6		
3239	C-4	C3361	A-4	C6023	E-6	R2082	E-5	R3081	B-2	R3261	C-5	R6027	B-6		
3240	C-4	C3362	A-4	C6024	B-6	R2084	E-5	R3082	D-3	R3262	C-5	R6028	B-6		
3241	C-4	C3363	A-4	C6025	E-6	R2085	F-5	R3083	D-3	R3263	C-4	R6029	E-6		
3242	D-4	C3364	F-4	C6026	E-6	R2086	B-5	R3084	D-3	R3264	C-5	R6030	B-6		
3243	B-4	C3365	A-4	C6027	E-7	R2087	F-5	R3085	D-3	R3265	C-5	R6032	8-6		
3244	D-5	C3366	A-4	C6028	E-7	R2088	B-5	R3086	B-3	R3266	C-5	R6033	B-6		
3245	B-5	C3367	F-4	C6029	E-7	R2090	B-4	R3088	E-3	R3267	F-4	R6034	D-7		
3246	D-5	C3368	A-3	C6030	E-7	R2092	E-6	R3089	B-2	R3701	C-2	R6035	D-7		
3240 3247	E-5	C3369	A-4	C6033	E-7	R2099	E-6	R3090	F-2	R3702	D-2	R6036	B-7		
3248	B-5	C3370	A-3	C6034	B-7	R2100	E-6	R3091	B-1	R3703	C-2	R6037	B-7		
3249	C-5	C3370		C6035	D-7				F-2	R3703	C-2 C-1				
	E-5		A-3	ì		R2101	E-6	R3092				R6038	B-7	1	
3250		C3372	A-3	C6036	B-7	R2102	E-6	R3094	E-3	R3709	C-1	R6039	E-7		
3251	E-5	C3373	A-3	C6041	E-7	R2104	B-5	R3095	B-2	R3710	C-1	R6040	B-7		
3252	E-5	C3374	A-3	C6043	E-7	R2105	B-5	R3097	A-3	R3711	C-1	R6041	B-7		
3253	D-5	C3375	A-3	C6044	B-7	R2106	E-5	R3098	B-2	R3715	C-1	R6042	B-6		
3254	D-5	C3376	A-2	C6045	B-7	R2111	E-6	R3099	A-2	R3716	C-1	R6043	8-7		
3255	C-5	C3377	A-2	C6046	E-6	R2112	E-6	R3100	A-2	R3717	C-1	R6044	B-6		
3256	C-5	C3378	A-2	C6047	D-6	R2113	B-6	R3101	A-3	R3718	C-1	R6045	B-6		
3257	B-4	C3379	A-5	Resistor		R2115	E-5	R3117	B-2	R3719	C-1	R6046	D-7		
3258	F-3	C3701	C-2			R2116	A-6	R3120	D-3	R3720	C-1	R6047	C-3		
259	F-4	C3702	C-2	R2001	C-3	R3001	E-3	R3121	D-3	R3721	C-2	R6048	E-7		
3260	B-4	C3703	D-2	R2002	C-3	R3002	B-2	R3122	D-3	R3722	C-2	R6049	E-7		
3261	D-6	C3704	D-2	R2003	C-6	R3003	E-3	R3123	B-3	R3723	C-2	R6050	E-7		
262	D-5	C3705	C-1	R2006	F-6	R3004	D-4	R3151	F-7	R3724	C-2	R6051	E-7		
3264	C-5	C3706	C-1	R2007	F-6	R3005	E-3	R3152	F-7	R3725	E-2	R6052	E-6		
3265	C-5	C3707	C-1	R2008	F-6	R3006	E-3	R3153	B-6	R3728	E-2	R6053	E-7		
3267	D-6	C3707	D-1	R2009	F-6	R3007	B-3	R3154	B-6	R3729	E-2	R6054	E-7		
3280	D-6	C3709	C-1	R2010	8-6	R3008	B-3	R3155	B-6	R3730	E-2	R6055	E-7		
							1	i						1	
3301	A-7	C3710	D-1	R2011	B-6	R3009	E-1	R3156	B-6	R3731	E-2	R6056	E-7		
3302	A-7	C3711	C-1	R2012	F-6	R3010	B-3	R3157	F-4	R3732	B-2	R6057	E-7	- 1	
3303	A-7	C3712	C-1	R2013	F-6	R3011	B-2	R3158	E-7	R3733	C-2	R6058	E-7		
304	A-6	C3713	C-1	R2014	F-6	R3012	B-2	R3159	F-4	R3735	B-2	R6059	E-7	- 1	
3305	A-6	C3714	C-1	R2015	B-6	R3013	B-2	R3160	D-4	R3736	C-1	R6060	C-7	- 1	
1	A-6	C3715	C-2	R2016	B-6	R3014	E-1	R3161	D-4	R3737	E-2	R6061	C-7	ļ	
500 I											,	- 1			
306 307	A-6	C3716	C-2	R2017	B-6	R3016	F-2	R3162	F-3	R3738	C-1	R6062	D-7	1	

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# 3-53. HEAD AMP C.B.A. (VEP05351A)

NOTE: MULTILAYER C.B.A.

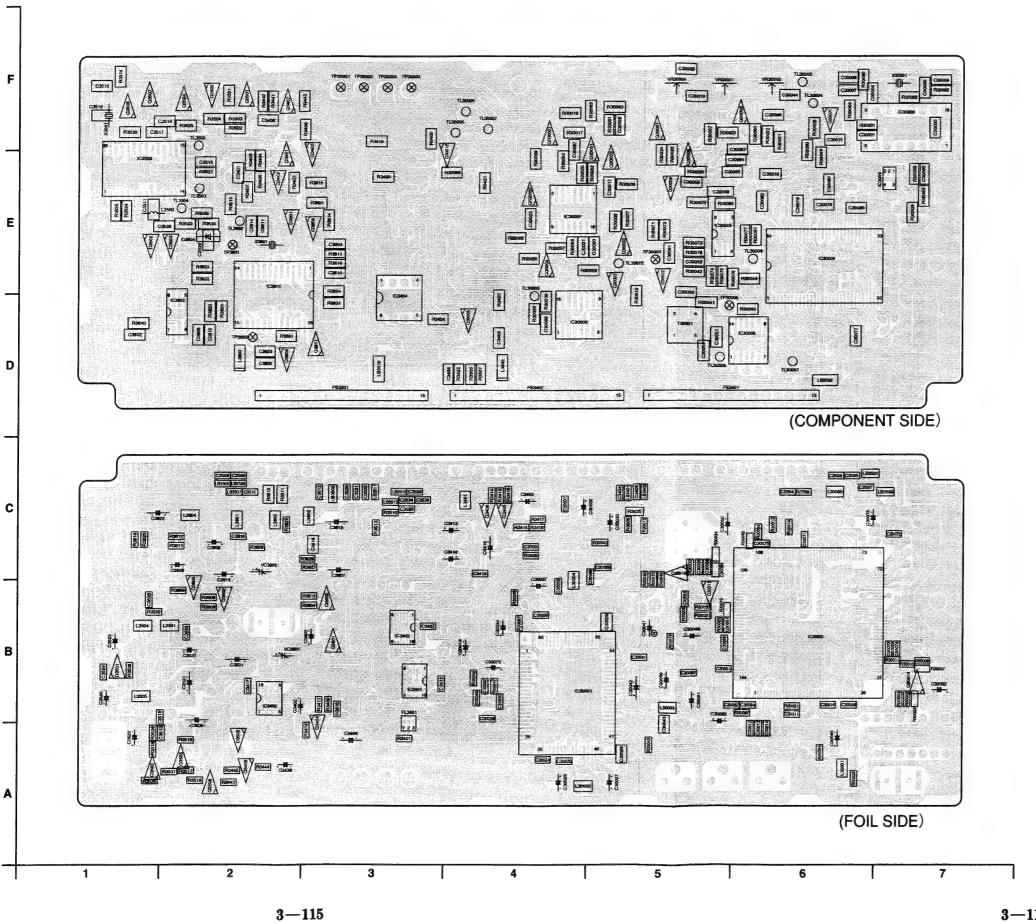
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN
FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.





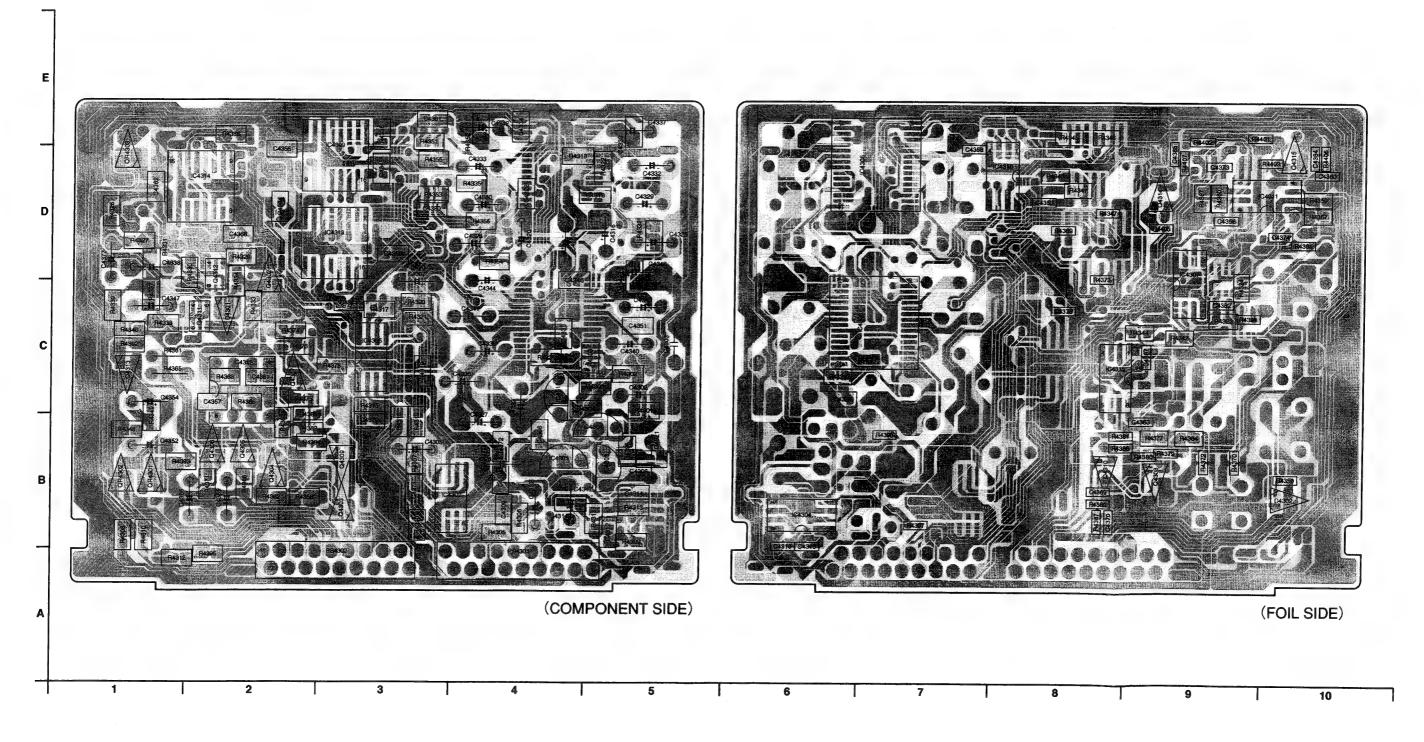
(COMPONENT SIDE)

3-114



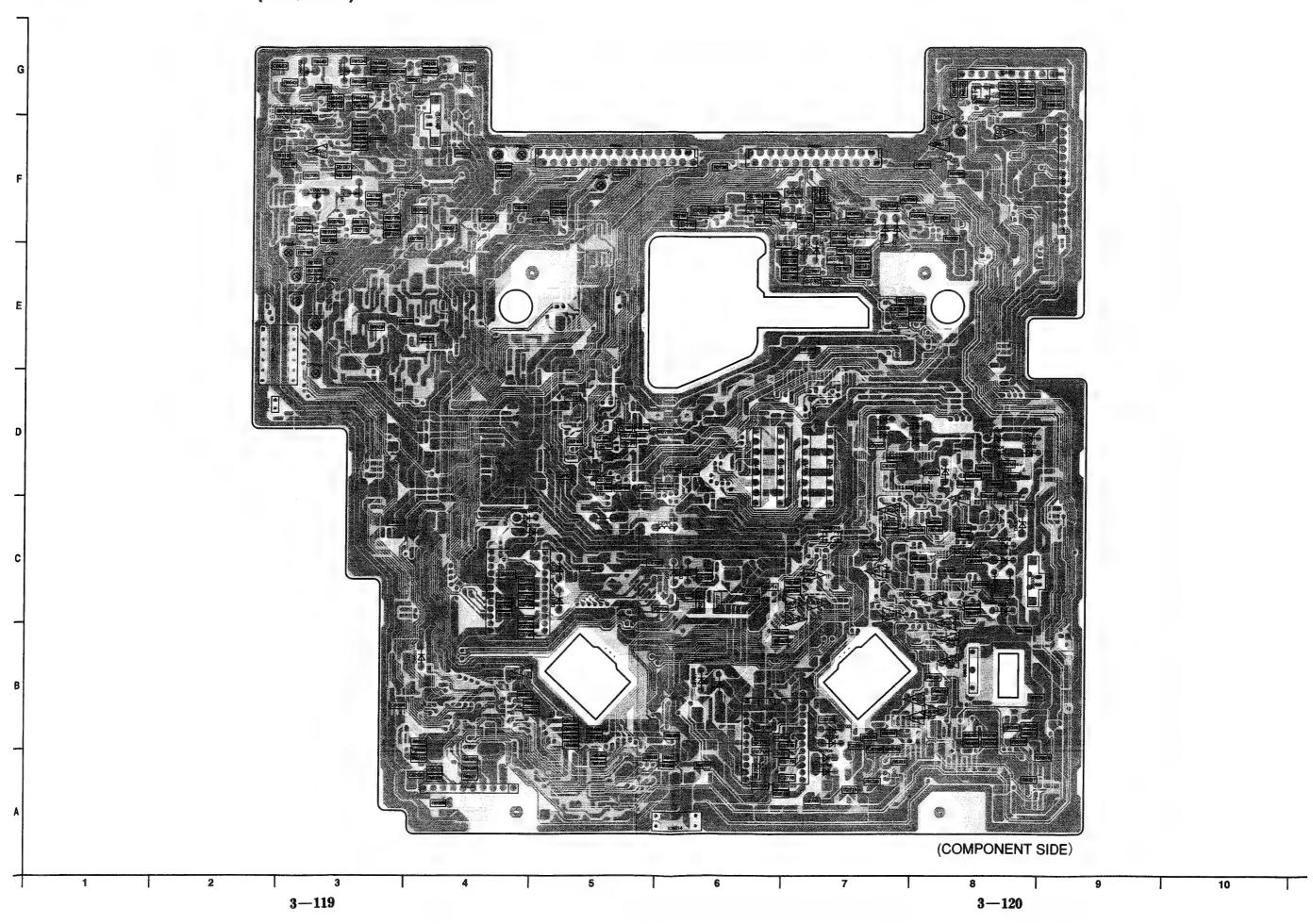
	ANALOG	Y/C C.B.A.	
Transistor		IC3801	E-2
Q3401	E-2	IC3802	D-2
Q3402	E-2	IC30001	B-4
Q3403	E-3	IC30002	B-6
Q3404	A-3	IC30003	F-7
Q3405	C-4	IC30004	E-6
Q3406	C-4	IC30005	E-5
Q3407	F-2	IC30006	D-6
Q3407 Q3408	A-2	IC30007	E-4
Q3501	F-2	IC30008	D-4
		IC30009	E-7
Q3502	F-2		l
Q3503	A-1	Test Point	
Q3504	F-2		
Q3505	A-2	TL3503	E-2
Q3506	F-1	TL3504	E-2
Q3507	F-1	TL3505	F-2
Q350B	A-2	TL3802	E-2
Q3801	B-3	TL30003	F-6
Q3802	B-2	TL30004	F-6
Q3803	B-2	TL30005	E-4
Q3806	E-3	TL30006	D-5
Q3808	B-3	TL30007	D-6
Q3809	D-2	TL30009	E-6
Q3811	D-3	TL30015	E-5
Q30001	F-6	TL30025	F-4
Q30002	E-5	TL30026	F-4
Q30003	E-5	TL30027	F-4
Q30004	E-4	TP3801	E-2
Q30005	D-4	TP3802	D-2
Q30006	F-6	TP30001	F-3
Q30007	F-5	TP30002	F-3
Q30008	E-5	TP30003	F-3
Q30009	E-5	TP30004	F-3
Q30010	C-5	TP30005	E-5
Q30011	B-5	TP30006	D-5
Q30012	E-3		
Q30014	B-7	Adjustment	
Transistor & R	esistor	VC3801	B-2
QR30001	F-4	VR30001	F-5
QR30001	E-4	VR30002	F-6
Integrated Circ		VR30004	F-5
IC3401	B-3	Connector	
IC3402	B-3	PS3401	D-5
IC3404	D-3	PS3402	D-4
IC3405	B-2	PS3501	D-3
IC3502	E-1	I	

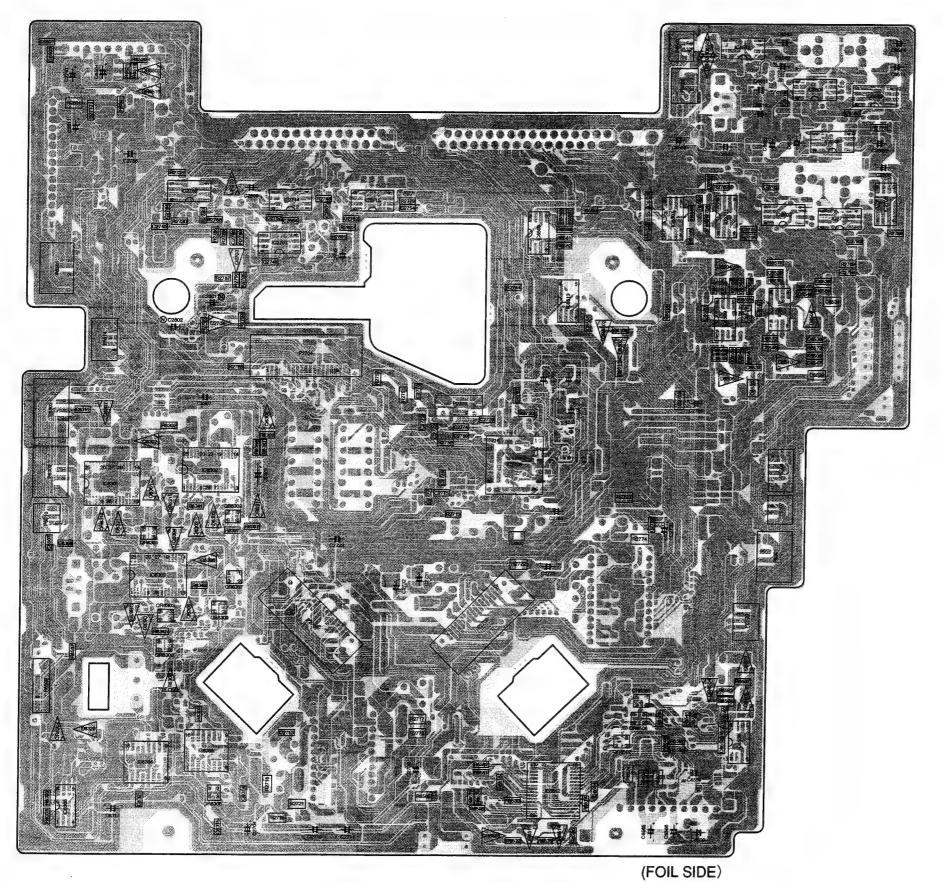
			AUDIO	C.B.A.			
Transistor	Transistor		B-8	Integrated Circuit		IC4310	D-8
Q4301 Q4302 Q4303 Q4304	B-5 C-2 B-3 B-2	Q4311 Q4312 Q4313 Q4314 Q4315	C-2 D-2 C-1 D-9 D-10	IC4301 IC4302 IC4303 IC4304	B-4 B-3 B-5 B-6	IC4311 IC4312 IC4313 IC4314 IC4315	D-9 C-2 D-3 D-2 C-8
Q4305 Q4306	B-2 B-2	Transistor & R	Transistor & Resistor		C-3 D-6	IC4315	C-8 C-4
Q4307	C-2	QR4301	B-1	IC4306 IC4307	D-9	Connector	
Q4308 Q4309	B-9 B-3	QR4302 QR4303	B-1 D-1	IC4308 IC4309	C-6 E-3	PS4301 PS4302	A-4 A-3



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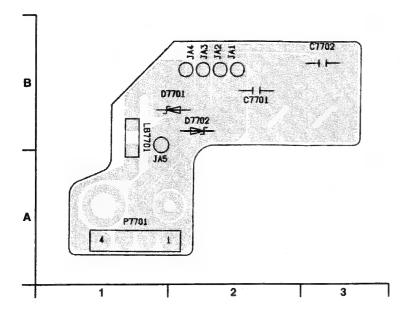




	MECHANIS	SM DRIVE C.B.A.		
Transistor		IC2715	F-13	_
Q2701	F-8	IC6301	D-11	
Q2703	E-12	IC6302	D-12	
Q2704	E-12	IC6303	C-12	
Q6301	D-12	IC6304	B-12	
Q6302	D-12	IC6305	A-11	
Q6303	C-12	IC6306	B-12	
Q6304	C-12	IC6502	A-4	
Q6305	C-12	IC6503	G-17	
Q6306	C-12	IC6504	G-17	
Q6307	D-11	IC6505	F-17	
Q6308	D-12	IC6506	B-16	
Q6502	E-15	IC6507	F-16	
Q6503	B-16	IC6508	F-15	
Q6504	F-3	IC6509	E-16	
Q6505	B-16	IC6510	E-16	
		IC6511	G-16	
Transistor &	Resistor	IC6512	A-15	
QR2701	F-12	IC6513	E-15	
QR6301	C-12	IC6514	A-6	
QR6302	C-12	<u> </u>		4
QR6303	C-12	Test Point		
QR6304	B-11	TL2701	E-3	٦
QR6305	B-12	TL2702	E-3	
QR6306	A-12	TP2701	E-3	1
QR6307	C-12	TP2702	E-3	-
QR6308	B-12	TP2703	E-3	1
QR6309	C-12	TP2704	E-3	1
QR6314	C-11	TP6501	E-3	1
QR6315	C-12	TP6502	F-4	ı
QR6316	C-12	TP6503	F-4	ł
QR6317	C-12	TP6404	F-5	1
QR6318	C-7	TP6505	F-8	1
QR6501	G-12			1
QR6502	E-15	Adjustment		ı
QR6503	A-14	VR2701	F-3	1
QR6504	B-16	VR2702	F-3	l
QR6505	B-15	VR6501	G-3	ı
QR6506	B-15	VR6502	G-3	l
QR6507	B-15		1 4-0	
QR6508	G-8	Connector		1
QR6511	B-4		r	ł
QR6514	A-15	P2701	C-13	ı
QR6515	A-15	P2702	C-14	l
QR6516	G-12	P2703	D-14	١
QR6517	F-8	P2704	E-13	l
Integrated Circ	cuit	P2705	F-9	l
100704	F 45	P6301	C-16	
IC2701 IC2702	F-16	P6302	D-11	
	F-16	P6303	D-11	l
IC2703 IC2704	B-7	P6501	E-11	
IC2704	C-4	P6502	D-2	
IC2705 IC2706	F-17	P6503	G-16	
IC2706	F-12	P6504	F-7	
IC2707	E-13 D-14	P6505	F-5	
IC2708		P6506	G-16	
IC2710	D-6	P6507	C-16	ĺ
IC2710	D-6 D-7	P6508	D-16	
IC2712	D-7	P6509	B-11	
IC2713	F-17	P6510	C-11	
IC2713	F-17 F-13	P6514	E-11	
102/14	L-19	P6520	C-16	

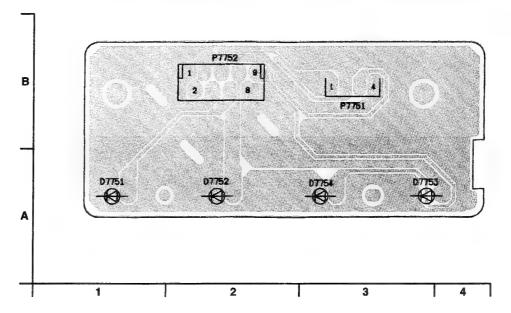
11 12 13 14 15 16 17 18 19 20 3—121 3—122

# 3-57. IR C.B.A. (VEP07968A)



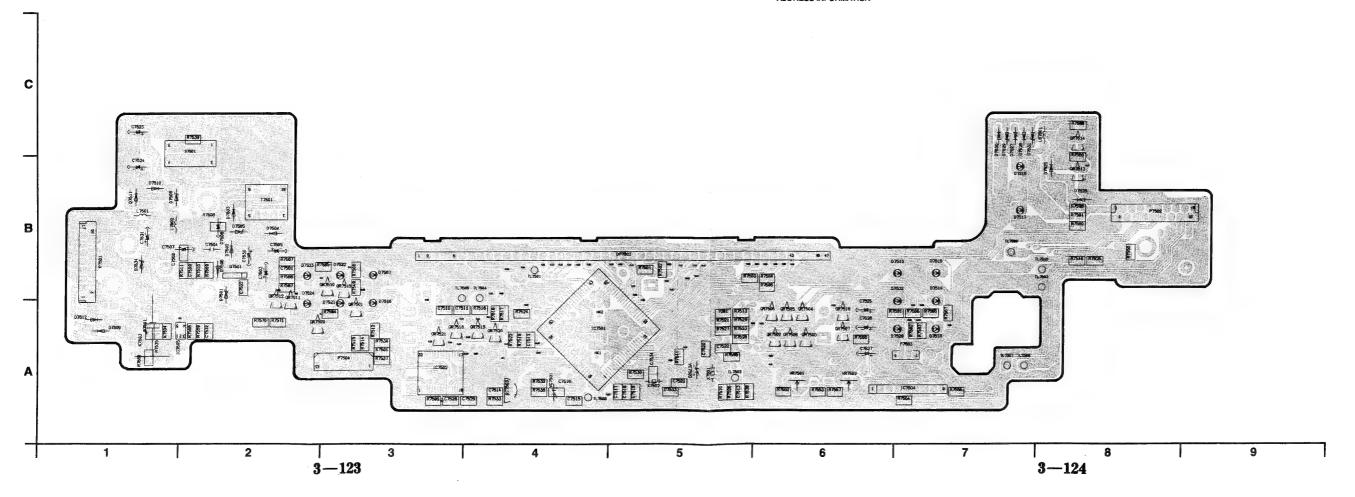
# 3-58. TIMER C.B.A. (VEP07A05A)

# 3-59. FRONT LED C.B.A. (VEP07965A)

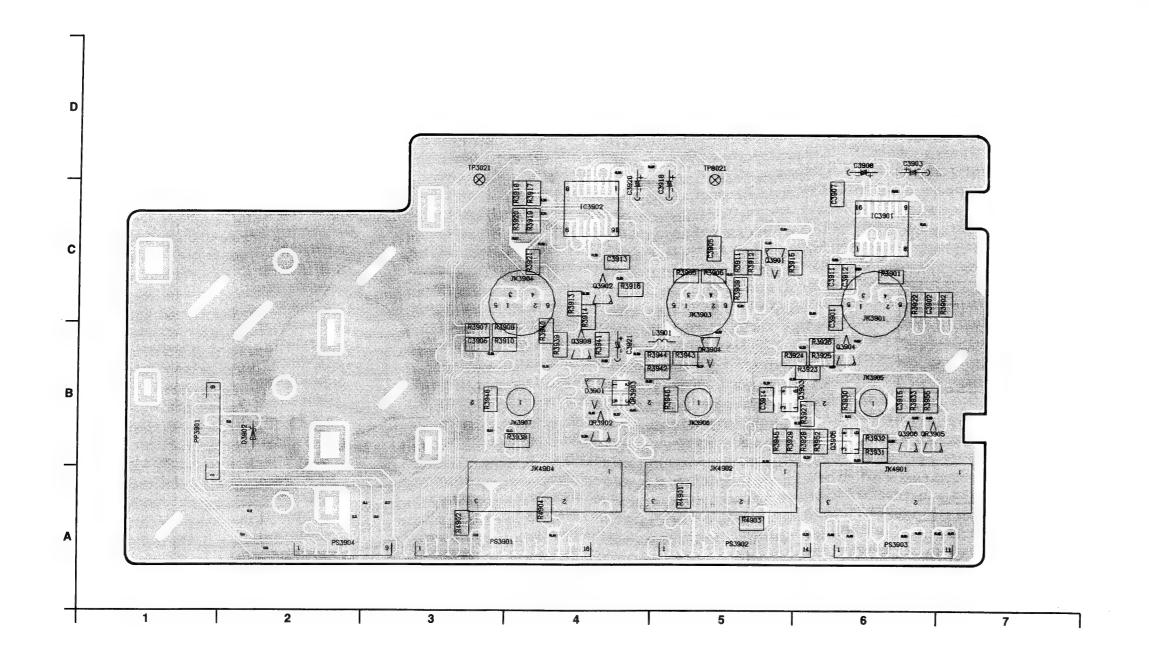


	TIMER C.B.A.										
Transistor		QR7508		QR7520		Test-Point		Adjustment			
Q7501 Transistor & R	B-2	QR7509 A-2 QR7510 B-3 QR7511 B-2 QR7512 B-2 QR7513 B-8	QR7510 B-3	A-3	TL7501 TL7502	B-4 A-5	VC7501 VC7502	A-3 A-5			
QR7501	A-3		Integrated Circuit		TL7503 TL7504	B-8 B-4	VR7501 VR7502	A-6 A-6			
QR7502 QR7503 QR7504 QR7505 QR7506 QR7507	A-6 A-6 A-6 A-6 A-6 A-6	QR7514 QR7515 QR7516 QR7518 QR7519	C-8 B-3 A-6 A-3 A-4	IC7502 IC7503 IC7504 IC7505	A-3 A-4 A-7 A-2	TL7505 TL7506 TL7507 TL7508 TL7509 TL7510	B-3 B-7 A-7 A-7 A-4 B-8	P7501 P7502 P7503 P7504	B-2 B-8 A-7 A-3		

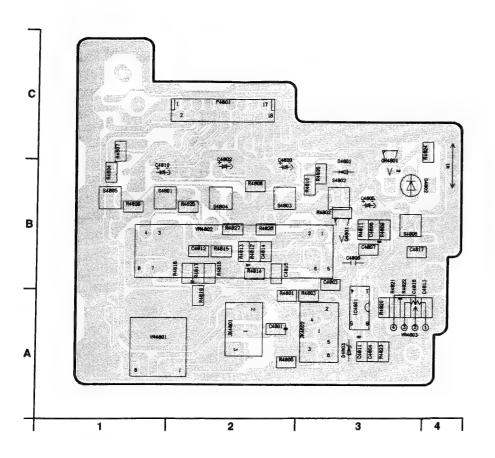
ADDRESS INFORMATION



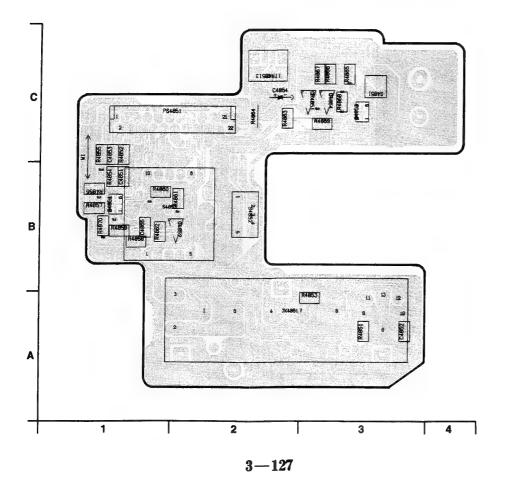
	INPUT/C	OUTPUT C.B.A.	
Fransistor		Integrated Circ	uit
Q3901 Q3902 Q3903	E-6 E-5 C-7	IC3901 IC3902	E-8 C-5
Q3904	D-8	Test Point	
Q3905 Q3906 Q3907 Q3908 Q3909	C-8 C-8 B-7 B-5 B-7	TP3021 TP8021 Connector	D-6 D-7
ransistor & R	esistor	PP3901 PS3901	B-2 A-5
QR3902 QR3903 QR3904 QR3905	D-5 D-5 A-5 C-7	PS3902 PS3903 PS3904	A-7 A-9 A-3

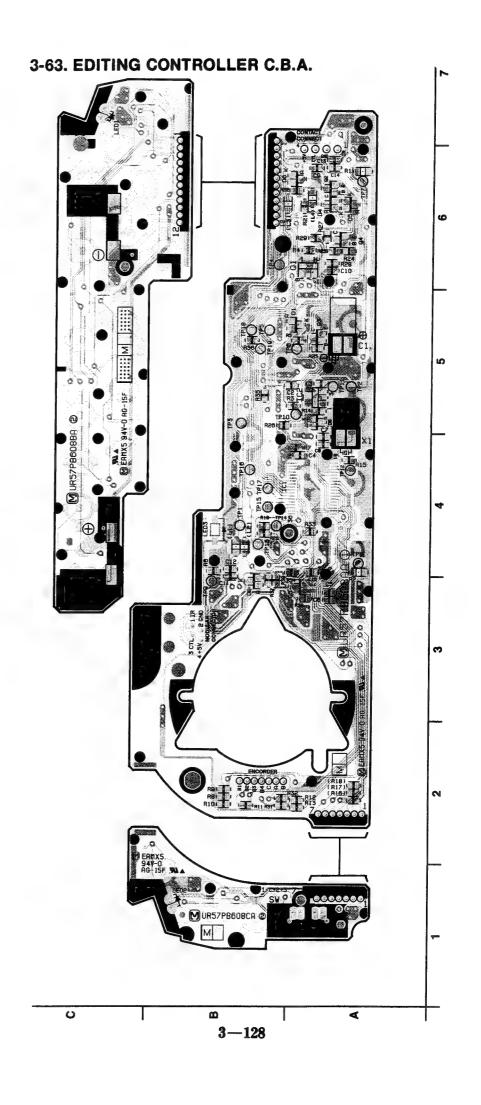


3-61. FRONT (L) C.B.A. (VEP03E90A)



3-62. FRONT (R) C.B.A. (VEP04728A)





ORDER NO. VSD9812M224B

# Service Manual

Volume. 2



**Panasonic** 

Mini DY DY

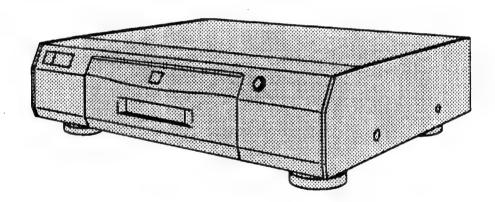
Sec. 4 Service Information

Sec. 5 Electrical Adjustment Procedures

Sec.6 Exploded Views/
Parts Lists

**Digital Cassette Video Recorder** 

AG-DV2000P



Please refer to the Service Manual Model AG-DV2000P Volume 1 (Order No. VSD9812M224A) for Operating Instructions, Disassembly Procedures, Mechanical Adjustment Procedures, Block Diagrams, Schematic Diagrams and Circuit Board Diagrams.

Weight and dimensions shown are approximate. Specifications are subject to change without notice

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#### **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# INTRODUCTION

This Service Manual Volume 2 contains technical information such as Service Information, Electrical Adjustment Procedures and Exploded Views / Parts Lists which service personnel to understand and service the Panasonic Digital Video Cassette Recorder model AG-DV2000P.

**Panasonic** 

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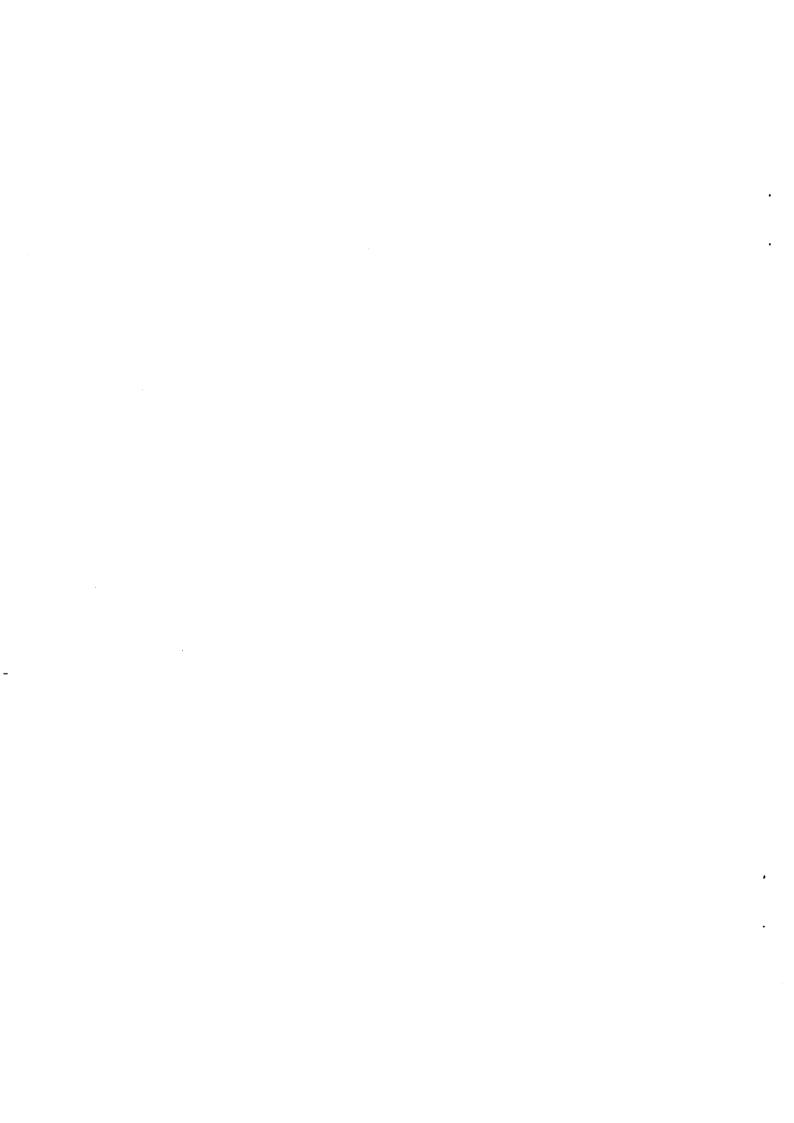
SERVICE INFORMATION	<b>SECTION 4</b>
ELECTRICAL ADJUSTMENT PROCEDURES	SECTION 5
EXPLODED VIEWS / PARTS LISTS	SECTION 6

# SECTION 4

# SERVICE INFORMATION

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### 4. SERVICE INFORMATION

#### 4-1. SERVICE INFORMATION DISPLAY

The Service Information Display on the front panel, there are four digits divided into 3 functions, Service mode, Service Data Number and Service Information Number.

This information aids trouble shooting by indicating the source of the malfunction. The service mode number and service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technical to provide a more accurate repair cost estimate and reduce repair time.

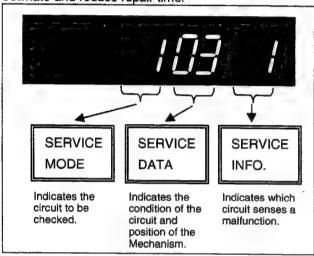


Fig. S1 Service Information Display

#### 4-1-1. Set Service Mode

Press the FF and Eject button simultaneously. The display will change "0.\*\*:\*\*

Pressing the FF and Eject button simultaneously will change the Service Mode Number as follows.

Mode 1: Check tape protection circuit

Mode 2: Check tape transport mechanism

Mode 3: Check mode switching operation

Mode 4: Check tray in / out operation

Mode 5: Check control buttons

Mode 6: Check mode switching and solenoid operations

Mode 7: Check loading / unloading operation

The first digit indicates which of the above 7 service modes that the unit is currently in.

The second and third digits are service data that indicate the condition of the circuit or mechanism being checked as shown in Figure S2. The forth digit is the service information display. It is to be used by the

consumer to help determine the source of a malfunction. The service information display operates independently of the service mode and stores the fault indication in memory for as long as AC power is not supplied.

not supplied.									
Service	Service	Indication							
Mode No.	Data No.								
1	00	Light detec	ted both	sensors					
Tape	01	Tape begin	ning.						
Beg./End		Light to S.	sensor is	blackene	d				
Detect	02	Tape end.							
		Light to T. s	ensor is	blackene	d				
	03	No light de	tected eit	hersens	or.				
2	03	Cassette d	own.						
Mecha.	05	H/L positio	n.						
Position	07	Middle pos	ition.						
Detect	09	Stop position							
	33	Tray open							
3	0*,2*,3*	Tray-in-→S							
Process	6*	Stop-→Pla							
Mode	8*	Play-→Cue		ch)					
Detect	9*	Play-→Rev							
	n*	Stop-→FF/REW							
	2*	Loading	-						
	L*	Unloading							
4	1*	Tray-in condition.							
Tray	*2 <del>-&gt;</del> *3 <del>-&gt;</del>	Tray-out condition.							
Process	*4→*00								
Mode									
Detect									
5	00	Stop							
Mode	02	REW							
Detect	03	FF							
	04	REV (R Se	arch)						
	05	Cue (F Sea	arch)						
	08	Play							
	OU	Rec							
6		Solenoid	Pinch	S reel	T reel				
Mecha.	1U	Stop	ON	OFF	OFF				
Position	16	FF/REW	OFF	OFF	OFF				
Detect	2U	Tray In/Out	OFF	ON	ON				
	29	Loading	OFF	OFF	ON				
7		The loading							
Check					•				
Load/		operation when the "PLAY" key is pressed and for unloading when							
Unload		"STOP" key is pressed.							
Operation		(Without ca							
Ti- 00 0									

Fig. S2 Service mode Number

#### 4-1-2. Error Message

This VTR has a self-diagnosis and display function. If the VTR detects an error during operation, one of the following Error Message Codes will automatically appear on the and error display. Error Message codes are displayed in the form of a single English letter plus two numbers such as "H01".

#### Note:

 The indication "H" of "F" is displayed on the FIP, and the power is automatically turned off.
 When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter). This Error Message Code will be stored in the Timer microprocessor even with the AC plug disconnected.

The two-digit number portion of the stored Code Message Code can be redisplayed on the display's "second" display position (the last 2 digits on the light) by placing the unit is Service Mode Number 2 when turning on Service Information Display as foe example "01" or "02" etc.

If a second error occurs, only the most recent error will be displayed and stored.

To erase the stored Error Message Code data, press "FF" and "Eject" button simultaneously more than 5 seconds.

Error		Condition	Cause	Remedy/Check
Н	H01	Cylinder Lock	After Cylinder lock is detected, the Cylinder does not start rotating again even after tape unloading.	Check the cylinder drive
	H02	Capstan Lock	Cassette tape is not wound up during tape unloading.	Check the capstan drive
F	F03	Loading Lock	Mechanism locks during tape loading.	1. Check the loading drive.
	F04	Unloading Lock	Mechanism locks during tape unloading.	Check the mode switch and     Gears phase on the     mechanical chassis.
	F05	Reel FG Detection	Detects abnormal condition during tape loading / unloading.	Check the tension sensors, S reel and T reel drive.
	F06	Tray In Lock	Tray Motor locks during Tray In.	1. Check the tray drive.
	F07	Tray out lock	Tray Motor locks during Tray Out.	Check the gears phase on the tray section.
	F08	Tension Sensor Detection	Detects abnormal condition during tape loading.	Check the tension sensor, S reel and T reel drive.

Fig. S3 Self-Test Indication Display

#### 4-2. MANUAL EJECT

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually.

There are 2 methods to remove the cassette as follows.

4-2-1. Battery Operation

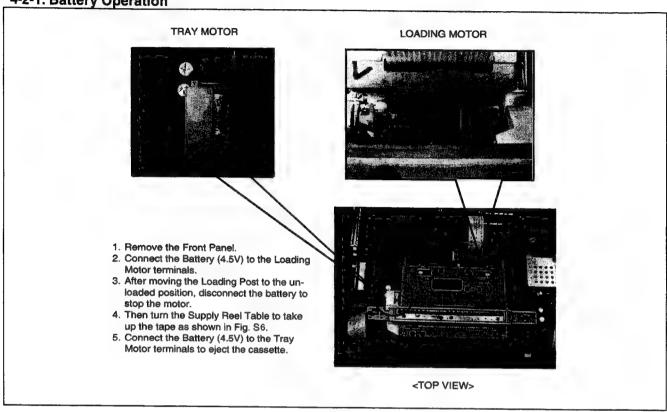


Fig. S4

#### 4-2-2. Hand Operation

# 1. Unload the loading post by turning the loading motor

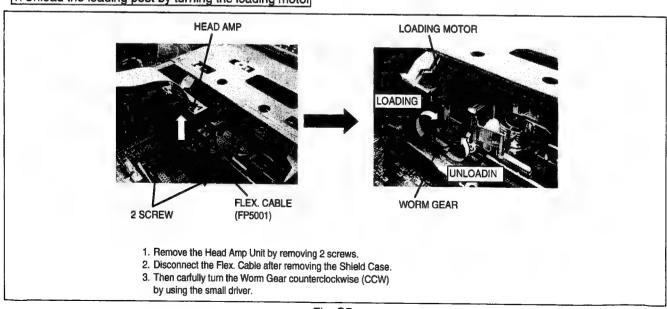


Fig. S5

# 2. Take up the tape by turning the supply reel table

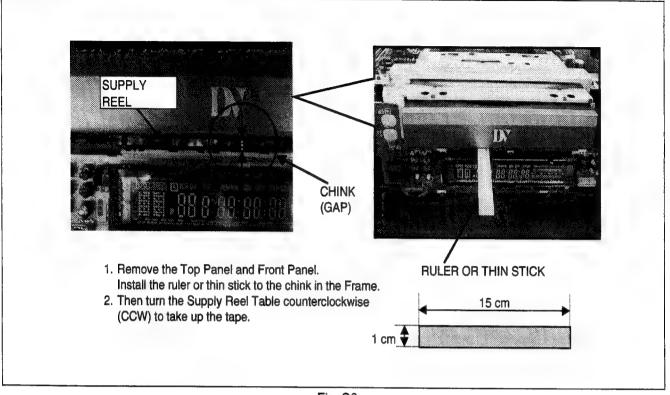


Fig. S6

#### 3. Eject the tray by turning the tray motor

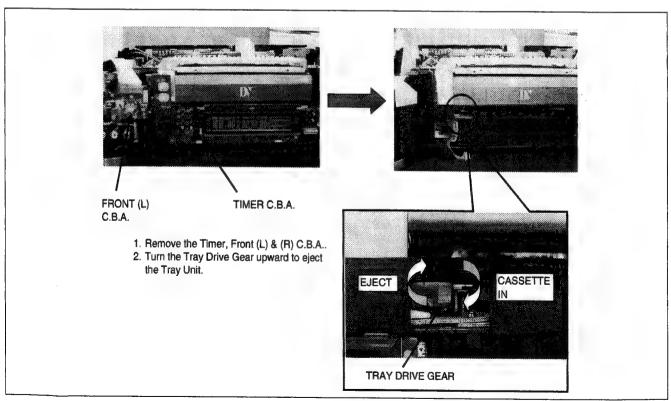


Fig. S7

### 4-3. SPECIAL FIXTURESAND TOOLS

In order to keep the factory adjustment specifications, the following special tools should be used to conduct mechanical and electrical adjustments, and servicing.

mechanical and electrical adjustments, and servicing. 4-3-1. Electrical Adjustments and Servicing VFK1409 VFK1410 VFK1317 Measuring Board Connection Board 30pin Flat Cable Ordinary RS-232C Cross (Needs 2 cables) Cable VFK1405 VFK1406 VFK1407 VFK1408 Audio Extender Board **Digital Extender Board** Y/C Extender Board Motor Extender Board VJA0941 VFK1436 VFK1448 VFK1445 DC Cable 14pin Extender Cable 12pin Extender Cable 26pin Flat Cable (For Measuring Board) VFK1446 VFK0849 VFK1484 VFM3010EDS 32 Flat Cable 20pin Flat Cable **EVR Software** Alignment Tape (Color Bar)

Fig. S8

4-3-2. Mechanical Adjustments

tments	1-2	
	VFK1151	VFK1149
Post Height Fixture	Box Driver	Post Driver
	2.5mm	
VFK1217	VFK1426	VFM3010EDS
49% Sensor Cassette		Alignment Tape
		(Color Bar)
VFK1156	VFK1208	
Neutral Position Tool	Neutral Position Tool	
(PLAY/Black)	(NEUTRAL/ Black w/Hole)	
	VFK1217 49% Sensor Cassette  VFK1156 Neutral Position Tool	VFK1450 Post Height Fixture  2.5mm 2.5mm 3.0  VFK1217 49% Sensor Cassette  VFK1426 6% Sensor Cassette  VFK1426 Neutral Position Tool  VFK1208 Neutral Position Tool

Fig. S9

#### 4-3-3. Extender Board and Cable

User the following Extender Boards and Cables when checking individual circuit boars or mechanical chassis unit.

No.	Part No.	Part Name	Conn	ection	Q'ty	Remarks
1	VFK1405	Audio Connection C.B.A.	Main C.B.A.	- Audio C.B.A.	1	
2	VFK1406	Digital Connection C.B.A.	Main C.B.A.	- AV Digital C.B.A.	1	
3	VFK1407	Y/C Connection C.B.A.	Main C.B.A.	- Analog Y/C C.B.A.	1	
4	VFK1408	Motor Connection C.B.A.	Main C.B.A.	- Motor Drive C.B.A.	1	
5	VFK0849	20P Flat Cable	Digital FP3201	- Head Amp FP5002	1	
6	VFK1445	26P Flat Cable	Main P6703	- Mech. P6504	1	
7	VFK1446	32P Flat Cable	Main P6701	- Mech. P6505	1	
7	VFK1436	14P Extension Cable	Motor Power P2502	- Mech. P2705	2	
9	VFK1448	12P Extension Cable	Main P6707	- Power P1102	1	

Fig. S10

#### 4-3-4. Usage of Extender Board and Cable

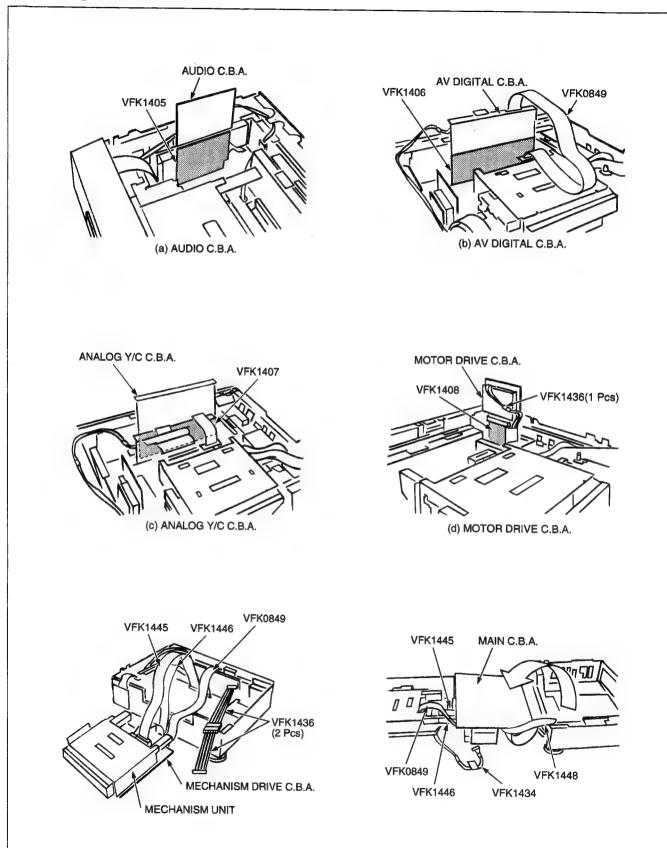


Fig. S11

#### 4-3-5. Summary Table of Special Fixtures and Tools

Part No.	JIG & EQUIPMENT	DVCPRO	AG-EZ30/20	PURPOSE	REMARK
VFK1409	Measuring Board	N	N	Part of PC EVR System	New
VFK1410	Connection Board	N	N	Part of PC EVR System	New
VFK1317	30pin Flat Cable	N	Υ	Part of PC EVR System	
VFK1405	Audio Extender Board	N	N	Extension of Audio Board	New
VFK1406	Digital Extender Board	N	N	Extension of Digital Board	New
VFK1407	Y/C Extender Board	N	N	Extension of Analog Y/C Board	New
VFK1408	Motor Extender Board	N	N	Extension of Motor Drive Board	New
VJA0941	DC Cable	N	Υ	DC Power Supply to VFK1409	New
VFK1436	14pin Extender Cable	N	N	Extension of Motor Drive Board	New
VFK1448	12pin Extender Cable	N	N	Extension of Main Board	New
VFK1445	26pin Flat Cable	N	N	Extension of Main Board	New
VFK1446	32pin Flat Cable	N	N	Extension of Main Board	New
VFK0849	20pin Flat Cable	N	N	Extension of Mecha. Chassis	New
VFK1484	EVR Software	N	N	Program for PC EVR System	New
VFM3010EDS	Alignment Tape (C Bar)	Y	Υ	General Confirmation	
VFK1348A	Neutral Plat	Υ	N	Post Height Adjustment	New
VFK1450	Post Height Fixture	N	N	Post Height Adjustment	New
VFK1151	Box Driver	Υ	N	Post Height Adjustment	
VFK1149	Post Driver	Υ	Υ	Post Height Adjustment	
VFK1188	Dial Tension Gauge	Y	N	Tape Tension Adjustment	
VFK1217	49% Sensor Cassette	N	Y	Sensibility of Tape Beg/End Detector Adjustment	
VFK1426	6% Sensor Cassette	N	N	Sensibility of Tape Beg/End Detector Adjustment	New
VFK1155	Neutral Position Tool (White)	Y	N	Tape Tension Adjustment	
VFK1156	Neutral Position Tool (Black)	Y	N	Tape Tension Adjustment	
VFK1208	Neutral Position Tool (Hole)	Y	N	Tape Tension Adjustment	

Y: Can be used for DVCPRO or/and AG-EZ30/20,

N: Cannot be used for DVCPRO or/and AG-EZ30/20

Fig. S12

#### 4-4. PC EVR System

PC EVR System as shown in figure S13 is needed for some of electrical adjustment.

More details of the PC EVR System and adjustment procedures, please refer to the Electrical Adjustment Procedures Section (Section 2) in this service manual.

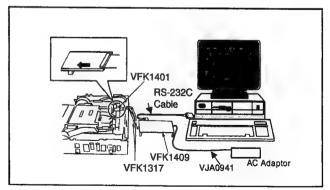


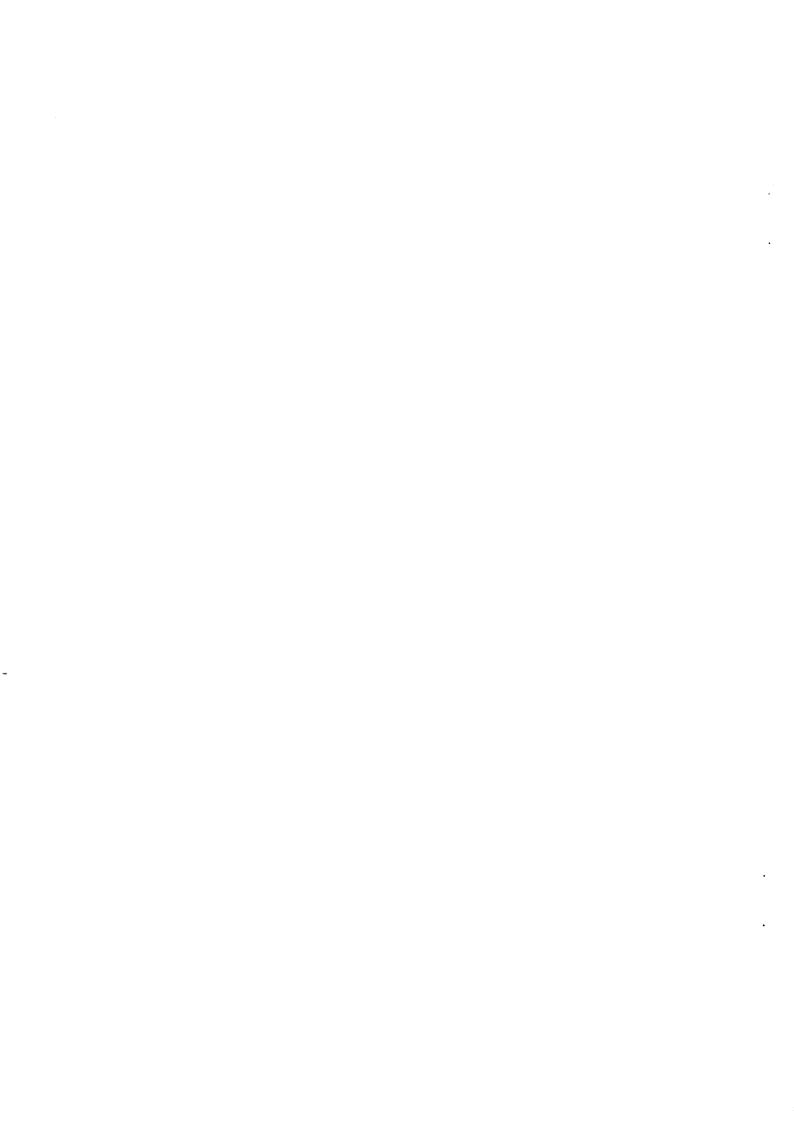
Fig. S13

## SECTION 5

# **ELECTRICAL ADJUSTMENT**

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#### 5. ELECTRICAL ADJUSTMENT PROCEDURES

#### 5-1. PREPARATION

To perform electrical adjustments completely, the following measuring equipment should be prepared.

#### 5-1-1. Measuring Equipment

Equipment		Specification	
Duai-Trace Oscilloscope	Voltage Range	0.001 to 50V/Div.	
	Frequency Range	DC to 100MHz	V - 1
	Probes	10:1, 1:1	
DVM (Digital Volt Meter)	Voltage Range	0.001 to 50V	
Frequency Counter	Frequency Range	0 to 150MHz	

Fig. E1

#### 5-1-2. Special Fixtures and Tools

Please refer to the Service Information Section in this service manual.

#### 5-1-3. PC EVR System

The table in figure E2 shows the all electrical adjustments, some of the adjustments need the PC EVR System.

Menu	Adjustment	Nasality of PC EVR System	Menu	Adjustment	Nasality of PC EVR System
SERVO	1. Reel Offset Adjustment	No	VIDEO	VCO 28MHz adjustment	No
ADJUSTMENT MENU	Tension Arm Offset     Adjustment	No	ADJUSTMENT MENU	2. Dot Lock Adjustment	No
	Tension Arm neutral     Adjustment	No		3. E-E Y Level (1) Adjustment	No
	Tension Arm Play     Level Adjustment	No		4. E-E Y Level (2) Adjustment	No
	5. Tension Arm Rev Position Confirmation	No		5. Play C Level Adjustment	No
	6. Tension Arm Spring Adjustment	No		6. VCO 41MHz Adjustment	Necessary
	7. Reverse Tension Confirmation	No		7. RF / VITERBI Adjustment	Necessary
	PG Shifter Adjustment     (Automatic)	Necessary		Video Input Y Level     Adjustment	Necessary
	Sensitivity adjustment of tape sensors	No		Video Input C Level     Adjustment	Necessary
				10. Horizontal Picture Position Adjustment	Necessary
				11. Write Product ID	Necessary
			AUDIO ADJUSTMENT	Level meter adjustment	No
			MENU		

Fig. E2

Figure E3 shows the overall system connection of the PC EVR System.

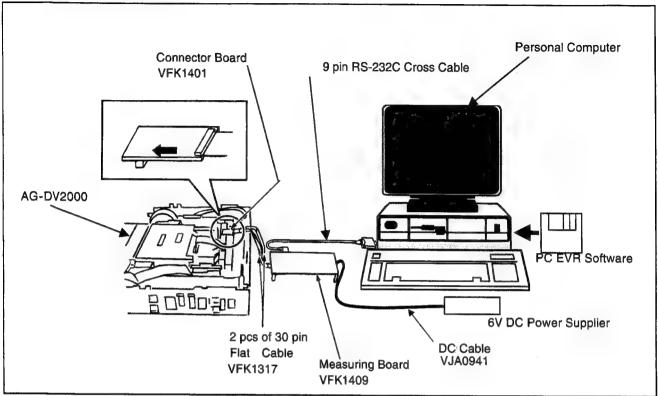


Fig. E3

#### 5-2. PC EVR System Hook up Procedures

- Connect 2 pcs of the 30 pin flat cables between the Measuring Board and EVR Connection Board as shown below.
- Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connection Board is as shown in figure E4.

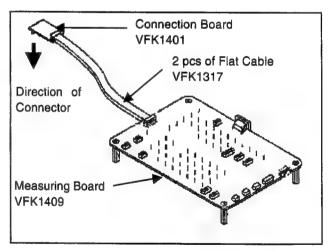


Fig. E4

 Set the Connector Board with the 30 pin Cables to the unit as shown in Figure below.
 Make sure that the direction of the Connection Board is correctly fit.

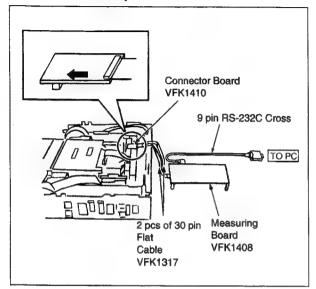


Fig. E5

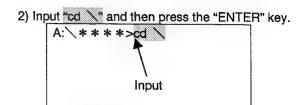
- Connect a 9 pin RS-232C cable between the Measuring Board and RS-232C connector on the Personal Computer as shown in figure E5.
- Connect the 4 pin 6V/DC Power cable between AC adaptor or DC power supply unit..

#### 5-3. PC EVR SOFTWARE

#### 5-3-1, BOOT UP THE SOFTWARE

- 1. Power ON the Personal Computer. Windows 95 is set up (AUTO).
- 2. Restart the PC in Dos mode.
- Insert the EVR software floppy disk into the FD drive of the PC.
- 4. Boot up the EVR program as the following steps.
  - 1) Input "a \* and then press the "ENTER" key.

    C: \WINDOWS>a:

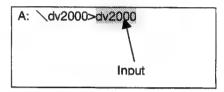


3) Input the "cd" and press the "ENTER" key.

A: >cd dy2000

Input

 input the "dv2000" and then press the "ENTER" key.



- Wait for a few seconds so that the EVR adjustment program is started.
- 6. For the adjustments, follow the program display.

#### 5-3-2. How to Use the Main Menu

Select a Sub Menu to check, adjust the unit and etc. by pressing † ↓ (UP/DOWN) Key in Main Menu. Then, press "ENTER" Key. The Sub Menu will be displayed.

Note: Menu (pages) 4 through 6 are needed for adjustment.

With using the keys, also the menu can be changed.

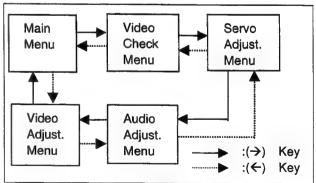


Fig. E6

#### 5-3-3. Introduction of the Sub Menu

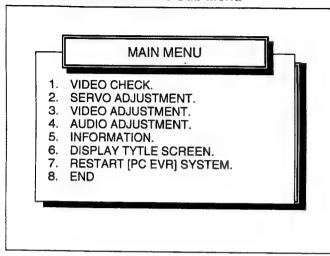


Fig. E7

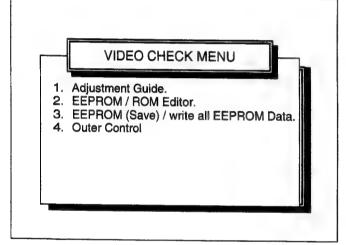


Fig. E8

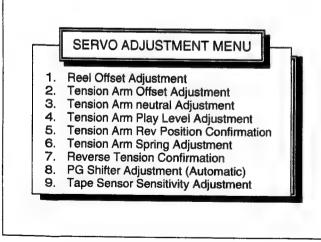


Fig. E9

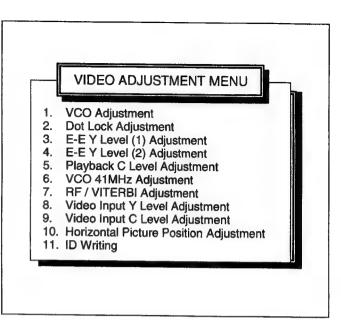


Fig. E10

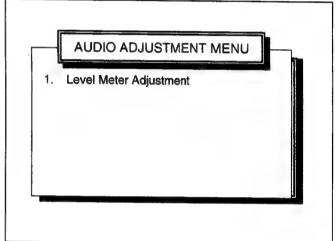


Fig. E11

#### 5-3-4. Restoration of Connecting Error

This program checks connecting condition with the deck all the time.

When the deck power is off or reset, or cable is disconnected during servicing, restart the program by pressing "CTRL" key and "BREAK" key together.

#### 5-3-5. **EEPROM**

Some of adjustment data have been stored in the EEPROM in the Digital C.B.A.

Be sure to save the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

#### 5-3-5-1. How to Save the EEPROM Data

- 1) Select "1. VIDEO CHECK" in the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "2. Save all EEPROM data" in Read (Save) / Write All EEPROM data menu, and then press the "Enter" key.
- Input the File name, and then press "Enter" key.
   The data of EEPROM will be stored in the personal computer.

#### 5-3-5-2. How to REWRITE Saved data

When it becomes impossible to adjust during service and adjustment, rewrite the saved data which stored in the personal computer and readjust.

- Select "1. VIDEO CHECK" in the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "3. Writing from stored data file" in Read (Save) / Write All EEPROM data menu, and then press the "Enter" key.
- Input the saved file name, and then press the "Enter" key.
- 5) The stored data is written in the EEPROM.

#### 5-3-5-3. Digital C.B.A. Replacement

In case that the Digital C.B.A. is replaced, be sure to write the data to EEPROM on the Digital C.B.A. as follows.

- 1. Select "1. VIDEO CHECK" In the Main menu, and then press the "Enter" key.
- 2. Select "3. Read (Save) / Write All EEPROM data" in
- the Video check menu, and then press the "Enter" key.
- Select "3. Writing from stored data files." In Read (Save) / Write All EEPROM data menu, and then press the "Enter" key. Input the saved file name, and

then press the "Enter" key.

OR:

Select "4. Writing of fixed / average values," and then press the "Enter" key. And press the "Enter" key once again.

Then, input ID Number as follows.

#### 5-3-5-4. How to Input ID Number

When writing ID Number from the saved data which is stored in 5-3-5-1.

- 1. Select "2. Check [Video]." In the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "5. Writing ID from the stored file." In Read [Save]/Write All EEPROM data menu, and then press the "Enter" key. Input the saved file name, and then press the "Enter" key.
- 4. The ID Number will be written automatically.

When the original ID information can not be read because of the destruction of EEPROM etc.:

- 1. Select "1. VIDEO ADJUSTMENT" in Main menu, and then press "Enter" key.
- 2. Select "9. Write products ID" in the Video adjustment menu, and then press the "Enter" key.
- ID Number will be written automatically.
   (If the deck has no ID, it may cause problem on the IEEE1394 communication and etc.

#### 5-4. ADJUSTMENT PROCEDURES

#### 5-4-1. Servo Section

#### 5-4-1-1. Reel Offset Adjustment

[Take up Reel Offset Adjustment]

TP	TP2701 (T ET), TP2702 (T GND)
ADJ.	VR2702 (T VR)
TAPE	Mini DV
TOOL	
MODE	Cassette Down (Stop)
M.EQ	D.V.M.
SPEC.	0 ± 1mV

#### [T Reel Offset Adjustment]

- Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter to TP2701 (T ET) and TP2702 (T GND).
- 3. Adjust VR2702 (T VR) so that the voltage is 0  $\pm$  1mV

[Supply Reel Offset Adjustment]

TP2703 (S ET), TP2704 (S GND)
VR2701 (S VR)
Mini DV
Cassette Down (Stop)
D.V.M.
0 ± 1mV

#### [S Reel Offset Adjustment]

- Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter to TP2703 (S ET) and TP2704 (S GND).
- 3. Adjust VR2701 (S VR) so that the voltage is 0  $\pm$  1mV.

#### [Tension Adjustment]

Flowchart in the figure below shows the tension adjustment steps.

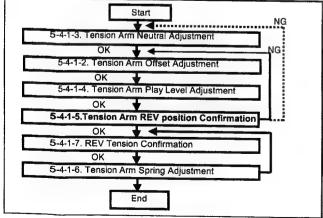


Fig. E12

5-4-1-2. Tension Arm Offset Adjustment

TP	TP6502 (TP2), TP6503 (TP3)	
ADJ.	VR6501 (TEN SET)	
TAPE	Mini DV	
TOOL		
MODE	Cassette Down (Stop)	
M.EQ	D.V.M.	
SPEC.	0 ± 0.03V	

- Set a cassette on the tray and make the cassette down condition.
- 2. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- Adjust VR6501 (TEN SET) so that the voltage 0 ± 0.03V.

5-4-1-3. Tension Arm Neutral Adjustment

TP	TP6502 (TP2), TP6503 (TP3)	
ADJ.	Tension Regulator Base	
TAPE		
TOOL	VFK1208 (Black with Hole)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M.	
SPEC.	0 ± 0.06V	

- 1. Remove the Tray Unit.
- 2. Set VFK1208 (black with hole) on the Supply Post Base (A) as shown in Figure E14.
- Place the unit into the no tape-loading mode by using the Service Mode described as follows.
  - 1. Press the "FF" and "Eject" buttons simultaneously in eight times to set the Service Mode No. 7.
  - 2. Place the mechanism in the loading condition as follows.
    - (1) Close the tray close switch (\$6501) on the Mechanism Drive C.B.A. by using adhesive tape as shown below.
    - (2) Close the tray down switch (S6502) by depressing with your finger.
    - (3) Press the PLAY button for the loading operation.

(Press the STOP button for unloading.)

- 4. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- 5. Loosen the screw (A).
- 6. Adjust the Tension Regulator Base so that the voltage is 0 ± 0.06V by moving the (D) portion with tweezers that are not magnetized.
- 7. Then tighten the screw (A).

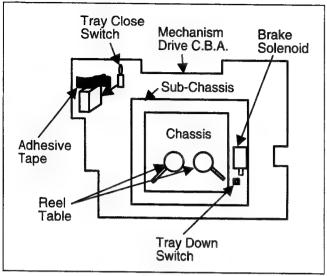


Fig. E13

#### <Caution>

Don't touch the S. Reel with magnetized driver or magnetized tweezers, when adjusting "D" portion.

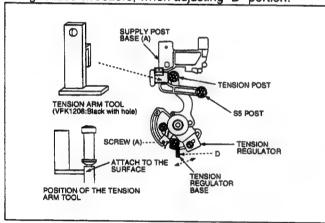


Fig. E14

#### 5-4-1-4. Tension Arm Play Level Adjustment

	TP6502 (TP2), TP6503 (TP3)	Ī
ADJ.	VR6502 (TEN GAIN)	
TAPE	2000000	١
TOOL	VFK1156 (Black)	1
MODE	Loading Condition (Service Mode 7)	1
M.EQ	D.V.M.	-
SPEC.	0.92 ± 0.03V	1

- 1. Remove the Tray Unit.
- Set VFK1156 (black without hole) on the Supply Post Base (A) as shown in Figure E15.
- Place the unit into the no tape-loading mode by using Service Mode. (Refer to the step 3 of paragraph 5-4-1-3)

- 4. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- 5. Adjust the VR6502 (TEN GAIN) so that the voltage is  $0.92 \pm 0.03V$

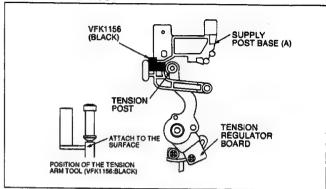


Fig. E15

#### 5-4-1-5. Tension Arm REV position Confirmation

	COMMITMATION
TP	TP6502 (TP2), TP6503 (TP3)
ADJ.	<b>2.</b> ⊕0.0 date date
TAPE	980000
TOOL	VFK1155 (White)
MODE	Loading Condition (Service Mode 7)
M.EQ	D.V.M.
SPEC.	-0.92 ± 0.2V

- 1. Remove the Tray Unit.
- Set VFK1155 (white) on the Supply Post Base (A) as shown in Figure E16.
- 3. Place the unit into the no tape loading mode by using Service Mode. (Refer to step 3 of paragraph 5-4-1-3)
- 4. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- 5. Confirm that the voltage is in the specification.
- 6. If it is out of the specification, readjust "5-4-1-3. Tension Arm Neutral Adj." and "5-4-1-4. Tension Arm Play Voltage Adjustment.".
- If it is still out of specification, replace the Tension Post unit and readjust the Tension Arm Adjustment from "5-4-1-2. Tension Arm Offset Adjustment".

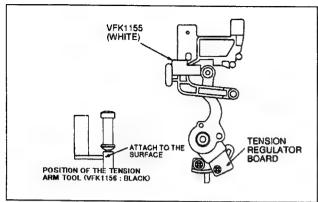


Fig. E16

5-4-1-6. Tension Arm Spring Adjustment

TP	TP6502 (TP2), TP6503 (TP3)	
	Tension Post	
ADJ.	Tension Regulator Spring Position	
TAPE	*****	
TOOL	VFK1188 (Dial Tension Gauge)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M., Dial Tension Gauge	
SPEC.	0.92V (Play Position), 11 ± 1gf	

- 1. Remove the Tray Unit.
- 2. Place the unit into the no tape loading mode by using Service Mode. (Refer to step 3 of paragraph 5-4-1-3)
- 3. Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3)
- 4. When pressing the R portion of the Tension Post in arrow direction by Dial Tension gauge (VFK1188) until the voltage becomes 0.92V the Tension regulator Spring position (Hook B) so that the tension is in the specification 11 ± 1gf.

5. Tighten screw (C).

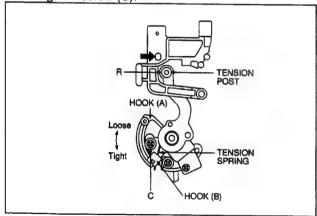


Fig. E17

#### 5-4-1-7. REV Tension Confirmation

TP	TP6502 (TP2), TP6503 (TP3) Tension Post	
ADJ.	Position of Tension Spring	
TAPE		
TOOL	VFK1188 (Dial Tension Gauge)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M., Dial Tension Gauge	
SPEC.	-0.92V (REV Position), 18 ± 2gf	

- Remove the Tray Unit.
- Place the unit into the no tape loading mode by using Service Mode. (Refer to step 3 of paragraph 5-4-1-3)
- 3. Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- When pressing the R portion of the Tension Post in arrow direction by Dial Tension Gauge (VFK1188) until the voltage becomes -0.92V (REV Position) as shown in Figure E18, confirm the tension is in the specification 18 ± 2gf.
- 5. If it is not, adjust "5-4-1-6. Tension Regulator Spring Adj." again.
- Grew the screw A, B and C after Tension Arm Adjustment. The grew quantity at B portion is half of A and C portions as shown in Figure E18.

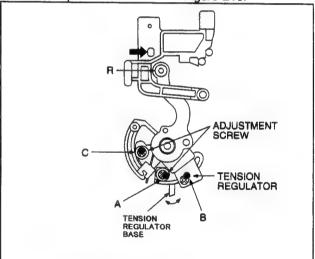


Fig. E18 5-4-1-8. PG Shifter Adjustment

3-4-1-0. Fa Similer Adjustifient	
TP	
ADJ.	PC EVR (AUTO)
TAPE	CCLOR BAR ALIGNMENT TAPE
INPUT	
MODE	PLAY
M.EQ	OSCILLOSCOPE
SPEC.	126.5 usec +/- 2usec

- 1. Set and boot the PC EVR System.
- Set the LSI TEST Switch on the Measuring Board at the TEST position.
- Connect the oscilloscope CH1 to HID1 test point on the Measuring Board and CH2 to SPA test point on the Measuring Board.
- 4. Play back the color bar alignment tape.
- Press the "ENTER" key of PC so that PG shifter is automatically adjusted.
- 6. Make sure that the timing "A" is 126.5usec +/- 2usec.
- 7. Set the LSI TEST Switch on the Measuring Board at the NOR position.

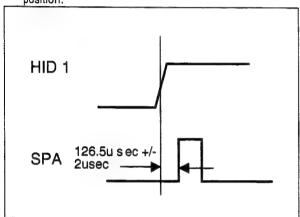


Fig. E19

5-4-1-8. Tape Sensor Sensitivity Adjustment [Supply Photo Sensor Adjustment]

ΤP	TP6501, TP6504 (S Photo)
ADJ.	DIP SW (S6504)
TAPE	Sensor Cassette
TOOL	VFK1426 (6%), VFK1217 (49%),
	Sensor Cassette
MODE	Stop
M.EQ	D.V.M.
SPEC.	0.5 - 1.0V, Refer to Figure E7

- 1. Set all of the DIP SW (S6504) to ON.
- 2. Insert the 6% Sensor Cassette VFK1426.
- Connect the Digital Volt Meter between TP6501 and TP6504 (S Photo).
- 4. Adjust the DIP SW as shown in Figure E20.
- 5. Confirm that the tape is not loaded when installing the 49% Sensor Cassette VFK1217.
- If the tape is loaded when install the 49% Sensor Cassette readjust this adjustment.

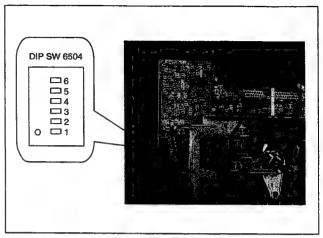


Fig. E20

[Take up Photo Sensor Adjustment]

Traite up : Hote conser Adjustificity	
TP6501, TP6505 (T Photo)	
DIP SW (S6504)	
Sensor Cassette	
VFK1426 (6%), VFK1217 (49%),	
Sensor Cassette	
Stop	
D.V.M.	
0.5 - 1.0V, Refer to Figure E8	

- 1. Set all of the DIP SW (S6504) to ON.
- 2. Insert the 6% Sensor Cassette VFK1426.
- 3. Connect the Digital Volt Meter between TP6501 and TP6505 (T Photo).
- 4. Adjust the DIP SW as shown in Figure E20.
- 5. Confirm that the tape is not loaded when installing the 49% Sensor Cassette VFK1217.
- If the tape is loaded when install the 49% Sensor Cassette, readjust this adjustment.

[Supply Sensor]

100/01/00000			
TP6501-TP6504 VOLTAGE	DIP SW (S6504) ADJUSTMENT PROCEDURES	RESULT OF THE ADJUSTMENT	REMARKS
When the voltage is 0 - 0.5V	<ol> <li>Change only SW6 to OFF</li> <li>Change only SW5 to OFF</li> <li>Change SW5 and 6 to OFF</li> <li>Change only SW4 to OFF</li> <li>Change SW4 and 6 to OFF</li> <li>Change SW4 and 5 to OFF</li> </ol>	If the voltage is not $0.5-1.0V$ , proceed to the item 2. If the voltage is not $0.5-1.0V$ , proceed to the item 3. If the voltage is not $0.5-1.0V$ , proceed to the item 4. If the voltage is not $0.5-1.0V$ , proceed to the item 5. If the voltage is not $0.5-1.0V$ , proceed to the item 6.	If the voltage is in the specification (0.5 – 1.0V), this adjustment is done.
When the voltage is 0.5 – 1.0V	This adjustment is not necessary.		
When the voltage is more than 1.0V	NG Replace the Supply Photo Sensor. Th	en readjust this adjustment.	

Fig. E21

[Take up Sensor]

TREEDI TREEDE	DID OW (DOTO)		
TP6501-TP6505 VOLTAGE	DIP SW (S6504)		
VOLIAGE	ADJUSTMENT PROCEDURES	RESULT OF THE ADJUSTMENT	REMARKS
When the voltage is 0 - 0.5V	<ol> <li>Change only SW1 to OFF</li> <li>Change only SW2 to OFF</li> <li>Change SW1 and 2 to OFF</li> <li>Change only SW3 to OFF</li> <li>Change SW1 and 3 to OFF</li> <li>Change SW2 and 3 to OFF</li> </ol>	If the voltage is not $0.5-1.0V$ , proceed to the item 2. If the voltage is not $0.5-1.0V$ , proceed to the item 3. If the voltage is not $0.5-1.0V$ , proceed to the item 4. If the voltage is not $0.5-1.0V$ , proceed to the item 5. If the voltage is not $0.5-1.0V$ , proceed to the item 6.	If the voltage is in the specification (0.5 – 1.0V), this adjustment is done.
When the voltage is 0.5 - 1.0V	This adjustment is not necessary.	•	
When the voltage is more than 1.0V	NG Replace the Take up Photo Sensor. T	hen readjust this adjustment.	

Fig. E22

#### 5-4-2. Video Section

5-4-2-1. VCO (28MHz) Adjustment

	too (Editital) staladallidik
TP	TP30006 / TP30005
ADJ.	T30001 (Y/C C.B.A.)
TAPE	
INPUT	Color Bar
MODE	E-E
M.EQ	Frequency Counter, DVM
SPEC.	28.636 +/- 0.05MHz

- Remove the Analog Y/C board and remove the shield cover of the analog Y/C board.
- Extend the Analog Y/C board with the Extender Board (VFK1407).
- Supply an external 2.5V +/- 0.1VDC to TP30005 and GND.
- 4. Supply a standard color bar signal to the line (composite) input.
- 5. Connect the frequency counter to TP30006.
- 6. Adjust T30001 so that the frequency is 28.636MHz +/- 0.05MHz.
  - Note: 1) The adjustment specification should be confirmed when the adjustment driver is away from T30001.
    - Make sure that the adjusted position of the core of T30001 is lower end side, not upper end side.
- 7. Remove the DC supply cable from TP30005 and connect the volt meter to TP30005.
- Confirm that the voltage at TP30005 is 2.5V +/-0.1VDC.

5-4-2-2. Dot Clock Adjustment

TP	TP3801 (on analog C.B.A.)
ADJ.	VC3802 (on analog C.B.A.)
TAPE	***************************************
INPUT	45000000000
MODE	E-E
M.EQ	Frequency Counter
SPEC.	7.00MHz +/- 0.01MHz

- Remove the Analog Y/C board and remove the shield cover of the analog Y/C board.
- Extend the Analog Y/C board with the Extender Board (VFK1407)Connect a short jumper wire between TP3802 and GND (pin 28 of IC3801).
- 3. Connect the frequency counter to TP3801.
- Adjust VC3802 so that the frequency is 7.00MHz +/-01MHz.

5-4-2-3. E-E Y Level (1) Adjustment

TP	TP3021 (I/O C.B.A.) or S-Video Connector (Y)	
ADJ.	VR30004 (Y/C C.B.A.)	
TAPE		
INPUT	Color Bar to Y/C Input (S-Video)	
MODE	E-E	
M.EQ	Oscilloscope	
SPEC.	TP3021 : 2.0Vp-p +/- 0.1V	
	S-Video : 1.0Vp-p +/- 0.05V (with 75 ohm)	

- Open the OSD and set the 3D NR in the Standard mode.
- 2. Connect the oscilloscope to TP3021. (or Y output of S-Video Output with 75 ohm termination).
- Adjust VR30004 so that Y level is 2.0Vp-p +/- 0.1V (1.0Vp-p +/- 0.05V at the Y output of S-Video Output with 75 ohm termination.)

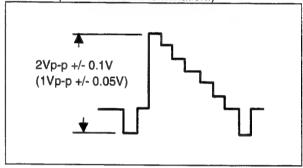


Fig. E23

5-4-2-4. E-E Y Level (2) Adjustment

TP	TP3021 (I/O C.B.A.) or S-Video Connector (Y)	
ADJ.	VR30001	
TAPE	00	
INPUT	Color Bar to Line Input	
MODE	E-E	
M.EQ	Oscilloscope	
SPEC.	TP3021 : 2.0Vp-p +/- 0.1V	
	S-Video : 1.0Vp-p +/- 0.05V (with 75 ohm)	

- Open the OSD and set the 3D NR in the Standard mode.
- Connect the oscilloscope to TP3021. (or Y output of S-Video Output with 75 ohm termination). Adjust VR30001 so that Y level is 2.0Vp-p +/- 0.1V (1.0Vp-p +/- 0.05V at the Y output of S-Video Output with 75 ohm termination.)

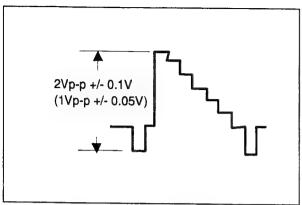


Fig. E24

5-4-2-5. Playback C Level Adjustment

TP	TPTP8021 (I/O CBA) or C out of S-Video	
ADJ.	VR30002 (Y/C CBA)	
TAPE	Color Bar Self Recorded Tape	
INPUT	Standard Color Bar	
MODE	REC/PB -→ PLAY	
M.EQ	Oscilloscope	
SPEC.	TP8021 : 572Vp-p +/- 40mV	
	S-Video:286mV+/-20mmV (with 75 ohm Termination)	

- Open the OSD and set the 3D NR in the Standard mode.
- 2. Supply a standard color bar signal to the Line (composite) input and record it for a few minutes.
- 3. Play back the portion just recorded.
- Connect the oscilloscope to TP8021. (or C output of S-Video Output with 75 ohm termination.).
- Adjust VR30002 so that burst level is 572mVp-p +/-40mV (or 286 mV +/- 20mV at the C output of S-Video Output with 75 ohm termination.)

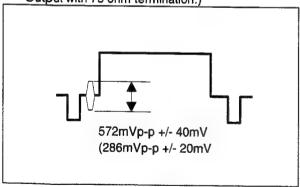


Fig. E25

5-4-2-6. VCO (41MHz) Adjustment

TP	[VCO] on Measuring Board
ADJ.	PC EVR (AUTO)
TAPE	
INPUT	
MODE	E-E
M.EQ	PC EVR System / Frequency Counter
SPEC.	41.85MHz +/- 200KHz

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- 3. Place the deck in the E-E mode.
- 4. Press the "ENTER" key of PC so that VCO frequency is automatically adjusted.
- 5. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-7. RF / VITERBI Adjustment

TP	TP3008 (H.SW), VIDEO
ADJ.	PC EVR (AUTO)
TAPE	SP Color Bar Self Recorded Tape
INPUT	
MODE	
M.EQ	SCOPE
SPEC.	Less than 100 (L and R) (Auto)

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- 3. Set a color bar SP self recorded tape onto the deck.
- 4. Press the "TAB" key on the adjustment mode so the automatic adjustment is performed.
- Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-8. Video Input Y Level Adjustment

TP	
ADJ.	PC EVR (AUTO)
TAPE	
INPUT	50% or 75% White Flat Field
MODE	Automatic
M.EQ	PC EVR System
SPEC.	Automatic

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- 3. Supply 50% or 75% white flat field signal to the line (composite) input.
- 4. Press the "ENTER" key of PC in the PC EVR System.
- 5. Adjust the DAC so that the resister value is 7E +/- 2 (Hex) (50% color bar input) or B4 +/- 2 (Hex) (75% color bar input).
- 6. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-9. Video input C Level Adjustment

	Tides input & Estal Adjustificity
TP	
ADJ.	
TAPE	PC EVR (AUTO)
INPUT	
MODE	Automatic
M.EQ	PC EVR System
SPEC.	Automatic

- 1. Set and boot the PC EVR System.
- Set the LSI TEST Switch on the Measuring Board at the TEST position.
- Supply 40% and same phase as burst signal color signal to the line (composite) input.

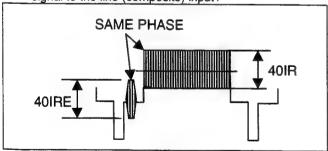


Fig. E26

- 4. Press the "ENTER" key of PC in the PC EVR System.
- Adjust the DAC so that the resister value is 9A +/- 02 (Hex).

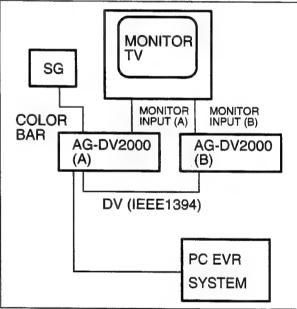
Note: If the above signal is not available, input the average data.

6. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-10. Horizontal Picture Position
Adjustment

TP	LINE OUT
ADJ.	PC EVR (AUTO)
TAPE	***************************************
INPUT	COLOR BAR
MODE	STOP / AUTO
M.EQ	Monitor TV
SPEC.	Less than 1mm on 20" monitor TV

- Set the deck (A) to be adjusted, master deck which has been well adjusted (B) and monitor TV which has 2 inputs as shown in the figure below.
- 2. Connect a DV cable (IEEE1394) between the decks as shown in the figure below.
- Supply a color bar signal to the deck (A) as shown in the figure below.



4. Connect the PC EVR System to the deck (A) and boot

Fig. E27

- Set the LSI TEST Switch on the Measuring Board at the TEST position.
- Alternately select the monitor input switch either (A) or
   input and observe the E-E pictures of decks (A) and
   (B).
- Adjust the data so that the horizontal position of E-E pictures (A) and (B) are equal (less than 1mm on 20" monitor TV).

8. Set the LSI TEST Switch on the Measuring Board at the NOR position.

#### 5-4-2-11. ID Writing

Note: 1) The ID writing should be made only when the data in EEPROM have been changed.

- If the deck dose not have an ID, communication problem may occur on the system of IEEE1394.
- 1. Set and boot the PC EVR System.
- 2. After completion of the preparation, press the ."ENTER" key of the PC.

(Please refer to paragraph 5-3-5-4. In mere details.)

#### 5-4-3. Audio Section

5-4-3-1. Level Meter Adjustment

TP	VU METER
ADJ.	VR7501(L), VR7502(R)
TAPE	
INPUT	1kHz, -10dBv SINE WAVE
MODE	E-E
M.EQ	-
SPEC.	0dB INDICATION

- Supply 1KHz, -10dBv sine wave signal to the Audio L1 line inputs (R) and (L).
- 2. Set the audio level VR's at the center position.
- 3. Adjust VR7501(L) and VR7502(R) so that the audio VU meters indicate 0dB points.

### SECTION 6

# EXPLODED VIEWS & PARTS LISTS

#### **CONTENTS**

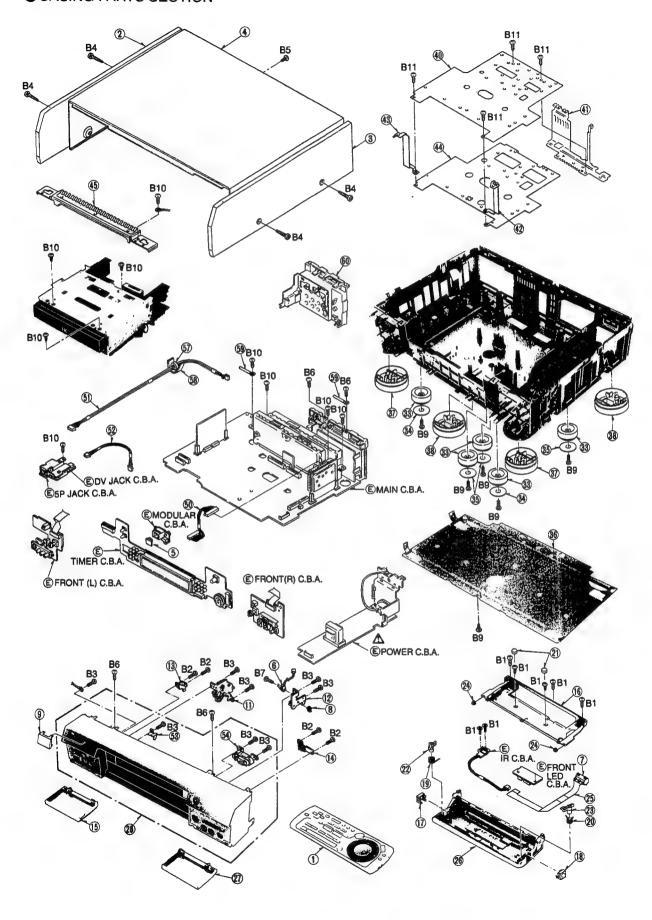
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1.CASING PARTS SECTION · · · · · · · · · · · · · · · · · · ·	· 6-1
2.CHASSIS PARTS SECTION (1)	
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4.SUB CHASSIS PARTS SECTION · · · · · · · · · · · · · · · · · · ·	
5.CASSETTE TRAY PARTS SECTION · · · · · · · · · · · · · · · · · · ·	
6.PACKING PARTS SECTION · · · · · · · · · · · · · · · · · · ·	
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#### **6.EXPLODED VIEWS & PARTS LIST**

6-1.EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST

**OCASING PARTS SECTION** 



Note: 1. 'Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

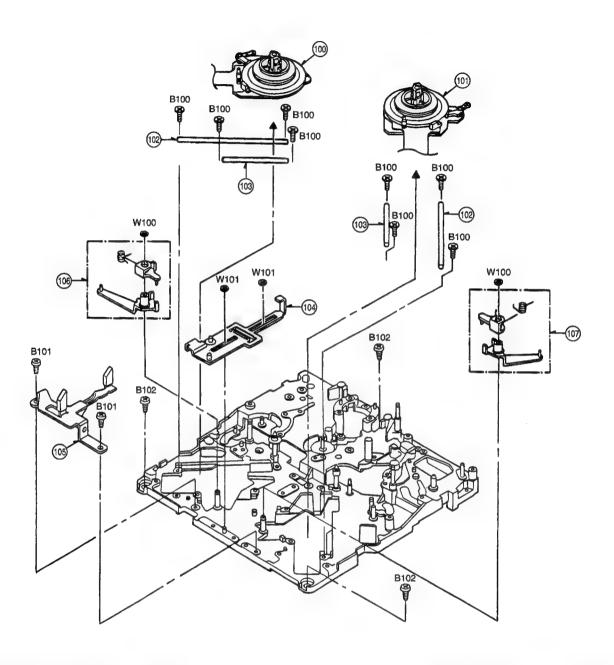
EUR571503   EDITING CONTROLLER   1	
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EUR571503 EDITING CONTROLLER  VORC2447 SIDE PANEL (L) 1  VORC2448 SIDE PANEL (R) 1  VORC2448 SIDE PANEL (R) 1  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL  I TOP PANEL  VORM1493 TOP PANEL  I TOP PANEL	
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VGK2448 SIDE PANEL (R) 1 VGM1493 TOP PANEL 1 VGM4455 MODULAR CAP 1 VSP1082 FRONT SW ASS Y 1 VG02807 FLEXIBLE CABLE HOLDER 1 VJF0496 CLAMPER 1 VJF0496 CLAMPER 1 VXA8018 DOOR ANGLE (L) ASS Y 1 VXA8018 DOOR ANGLE (L) ASS Y 1 VXA8019 DOOR ANGLE (L) ASS Y 1 VXA8019 DOOR ANGLE (L) ASS Y 1 VXA8019 DOOR ANGLE (L) ASS Y 1 VXA8019 DOOR ANGLE (L) ASS Y 1 VXA8045 DAMPER ANGLE (L) ASS Y 1 VXA8045 DAMPER ANGLE (L) ASS Y 1 VXA8045 DAMPER ANGLE (R) ASS Y 1 VXA8045 DAMPER ANGLE (R) ASS Y 1 VXA8046 DAMPER ANGLE (R) ASS Y 1 VXA8045 DAMPER ANGLE (R) ASS Y 1 VXA91581 DOOR PANEL 1 VXA91581 LOCK BUTTON (L) 1 VW03188 LOCK LEVER SPRING (L) 1 VW03188 LOCK LEVER SPRING (L) 1 VW03189 LOCK LEVER SPRING (R) 1 VW03289 LOCK LEVER (L) 1 VW03289 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (R) 1 VW103280 LOCK LEVER (L) 1 VW22880 DOOR (C) 1 ASS Y 1 VW103380 LOCK LEVER (R) 1 VW103380 LOCK LEVER (R) 1 VW103380 LOCK LEVER (R) 1 VW103380 LOCK LEVER (R) 1 VW103380 LOCK LEVER (R) 1 VW103380 LOCK LEVER (R) 1 VW10340 LEG SHEET A 2 VW103480 LOCK LEVER (R) 1 VW27007 FRONT PANEL (1) ASS Y 1 VV272880 DOOR (C) 1 ASS Y 1 VV272880 DOOR (C) 1 ASS Y 1 VV272880 DOOR (C) 1 ASS Y 1 VV272880 DOOR (C) 1 ASS Y 1 VV200380 LOCK (R) ASS	
VGM1493	
VG04455   MODULAR CAP	
VSP1082   FRONT SW ASS Y   1   VG02807 FLEXIBLE CABLE HOLDER	<b> </b>
VG02807   FLEXIBLE CABLE HOLDER   1	-
VJF 0496	<b> </b>
VKW2399	
VXAB018	
VXABO19	
VXABO45   DAMPER ANGLE (L) ASS Y   1	
VXABO45   DAMPER ANGLE (L) ASS Y   1	
VXABC48	
S	
VGP4571	
VGU7567	
VGU7568	
VMB3188	
VMB3187	
VMB3187	
VWG0837	
VML3269	_
VML3270	•
VMTO212	
S	-
VYF2585	-
VYF2588	
VYP7097	_
VKA0301   CERAMIC LEG   5   5   6   6   6   6   6   6   6   6	_
VMG1031	_
VMG1049	_
VKUO528	_
VKAO310	
VKAO310   LEG (F)   2   2   3   3   VKAO311   LEG (R)   2   2   3   3   VKAO311   LEG (R)   2   2   3   3   VKAO311   LEG (R)   2   3   3   VKZ2721   SHIELD SHEET   1   3   3   VSC4755   SHIELD PLATE   1   1   3   3   VSC4756   SHIELD PLATE (B3)   1   3   VSC4757   SHIELD PLATE (B4)   1   3   VSC4691   SHIELD PLATE   1   3   VSC4691   SHIELD PLATE   1   4   VSC4691   SHIELD PLATE   1   4   VSC4691   SHIELD PLATE   1   4   VSC4691   TOP ANGLE ASS'Y   1   7   7   7   7   7   7   7   7   7	_
VKAO311   LEG (R)   2	_
VMZ2721	_
VSC4755	_
VSC4756	_
VSO4757	
VSC4691	_
VXA6179   TOP ANGLE ASS' Y   1	_
VEOC24	
VEEOC24	
VEEOC26   WIRE CABLE (8P)   1   P3701-P7851   2   VEEOC25   WIRE CABLE (4P)   1   P3781-P8601   3   VMG1374   REDUCTION SPRING   1   1   1   1   1   1   1   1   1	_
VEEOc25	_
VMC1374   REDUCTION SPRING   1	
VXU1478	
VSO0687   FERRITE CORE	
VMTO442   SPONGE MAT   1	
VJR3   WIRE CLAMPER   2	_
VEJ1857   ANT TERMINAL   1	
VEJ1857	
XQN26+AG6FZ   SCREW   7	
XTN26+8GF Z SCREW	_
XTN26+8GF Z SCREW	_
XTN26+8GF Z SCREW	
XTN26+86FZ	$\Box$
XTN26+8GR	
XTB3+16GFC   SCREW   4	T
XTV3+86FZ   SCREW   1	1
XTV3+86FZ   SCREW   1	7
XTW3+12TR	$\dashv$
XSN2+8FX   SCREW   1	
XTV3+86 SCREW 6 6 0 XTV3+10GR SCREW 8	
O XTV3+10GR SCREW 8	
1 AIV3+66FZ SCREW 4	_
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Part No. Part Name & DescriptionPcs

Remarks

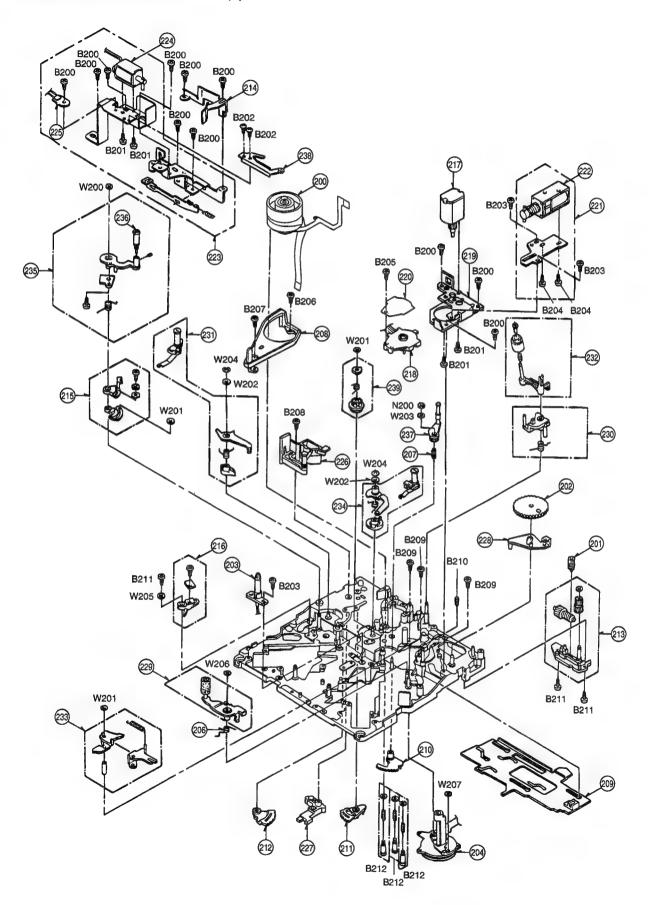
Ref. No.

#### **2** CHASSIS PARTS SECTION (1)



2. IMPO	DRTANT SAFETY	orders of replacement parts according NOTICE	) to ans	ast.	Ref. No.	Part No.	Part Name & Descrip	tiorPcs	Remarks
		with the mark \( \Delta \) have the special charts, use only the same type.	aracteri	stics for safety. When reptacing	8100	VHD0995	SCREW	8	
	1 41030 COMPONE	ina, use only the same type.			B101	XQN2+CF3	SCREW	2	
					B102	XSB26+4FX	SCREW	3	
ef.No.	Part No.	Part Name & Description	Pcs	Remarks					
00	VEM0638	S-REEL MOTOR (1) ASS'Y	-						
)1	VEMO639	T-REEL MOTOR (1) ASS'Y			W100	VMX1079	CUT WASHER	-	
)2	VMS6462	OUTER SHAFT	2		W101	VMX1394	CUT WASHER	2	
13	VMS5924	REEL INNER RAIL	2		_			-+-	
4	VXA6005	SLIDE ROD (1) ASS'Y	1						
5	VXA6006	REEL RELEASE ANGLET ASS' Y	1						
6	VXL2589	S BASE DRIVE ARM ASS'Y	1				T	-+-	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1						
	ļ		Ш.						

#### CHASSIS PARTS SECTION (2)



Note: 1. \*Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark 
have the special characteristics for safety. When replacing any of these components, use only the same type.

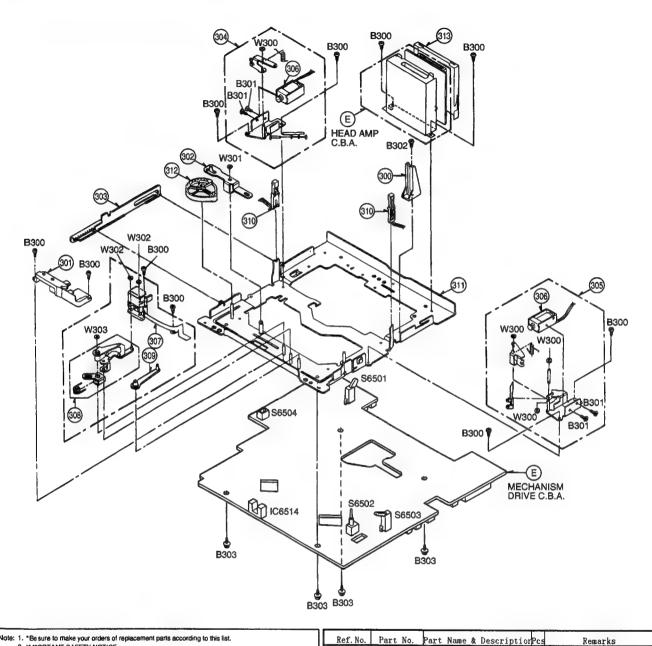
any or	f these componen	ts, use only the same type.						-	
						<del> </del>	<del></del>	$\vdash$	
Ref. No.	Part No.	Part Name & Description	Pc:	Remarks	11			-	
					11			1	
200	VEG1440	CYLINDER UNIT	1					t	
201	VDQ1166	MOTOR WARM GEAR	1					1	
202	VDG1168	MAIN CAM GEAR	1						
203	VEK8323	LED HOLDER (1) ASS'Y	1						
204	VEMO640	CAPSTAN (1) ASS'Y	1						
206	VMB2933	PINCH RELEASE SPRING	1		1				
207	VMB2950	T4 THRUST SPRING	1		<b>.</b>			L	
208	VMD2533	LOADING RAIL	1		<b>  </b>			1	
	VXA5563	MAIN ROD ASS'Y	1		<b> </b>			Ļ	
	VXA5564 VXA5567	T4 SECTOR GEAR ASS'Y	1		<b>∤</b> }			_	
	VXA5570	S SECTOR GEAR ASS' Y T SECTOR GEAR ASS' Y	1		-			L	
	VXA5827	THRUST SHAFT HOLDER ASS'Y	+		<del>   </del>			┝	
	VMD3475	TI GUIDE U.	H		┨├───	-		-	
	VXA5791	TENSION LEG SPRING HOOK	1					$\vdash$	
	VXA5820	TENSION SENSOR ASS'Y	1		11	-		$\vdash$	
	VEM0645	LOADING MOTOR (1) A ASS'Y	1		11			$\vdash$	
218	VES0814	MODE SW ASS' Y	1					-	
219	VMA9799	MOTOR ANGLE	1					-	
220	VMZ2737	MODE SW COVER	1		1			$\vdash$	
	VXA6009	PINCH SOLENOID BASE (1)	1						
222	VSJ0217	PINCH SOLENOID	1						
223	VXA6010	CLEANER BASE (1) ASS'Y	1					$\vdash$	
	VSJ0222	CLEANING SOLENOID	1						
	VEK7927	INSULLATION SENSOR	1						
	VXA6052	S POST BASE A ASS'Y	1						
	VXL2838	TEN REG. TURN ARM ASS'Y	1						
		MAIN CAM ARM ASS'Y	1		<u> </u>				
		PINCH ARM (1) ASS Y	1		<b> </b>				
	VXL2870 VXL2709	T2 ARM ASS'Y	1		<b> </b>				
		S1 LOADING ARM ASS'Y CLEANING ARM A ASS'Y	1		ł <b> </b>			_	
		PINCH TURN ARM (1) ASS'Y	1		<b>∤├</b> ───			_	
	VXL2898	T LOADING ARM ASS'Y	1		<b> </b>			-	
	VXL2831	TENSION ARM S (1) ASS'Y	1		11			-	
	VXP1761	TENSION ROLLER	1		1			$\vdash$	
237	VXL2B06	T4 ARM (1) ASS'Y	1					H	
238	VMA9753	STOPPER	1		1			$\vdash$	
239	VXP1683	T4 CONNECTION GEAR ASS'Y	1		1			$\vdash$	
								-	
	XQN2+CF3	SCREW	11		<b>!</b>				
	XQN2+A2	SCREW	4						
	XQN14+CF3	SCREW	2		<b> </b>				
	XQN2+AM2 VHD1101	SCREW SCREW	2		<b> </b>				
		SCREW	1		l			_	
	XQN2+AM4	SCREW	1		11			-	
	XQN2+A3	SCREW	1						
B208	XQN2+CF5	SCREW	1		1				
B209	XQN2+A35FZ	SCREW	3		1			-	
8210	VHD0356	SCREW	1		1			_	
8211	XQN2+CF4	SCREW	3		11				
B212	VXQ0439	SCREW	3						
	VMX0967	CUT WASHER	1						
	VMX 1 081	WASHER	3		l				
		WASHER	2		<b> </b>				
		WASHER	1						
		E-RING	2		l <b></b>				
		WASHER CUT WASHER	1						
	XWA2B	WASHER	1						
	MUEN	mover de D	-					_	
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N200	VHN0312	NUT	1					-	
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Ref. No.

Part No. Part Name & DescriptionPos

Remarks

#### **4** SUB CHASSIS PARTS SECTION

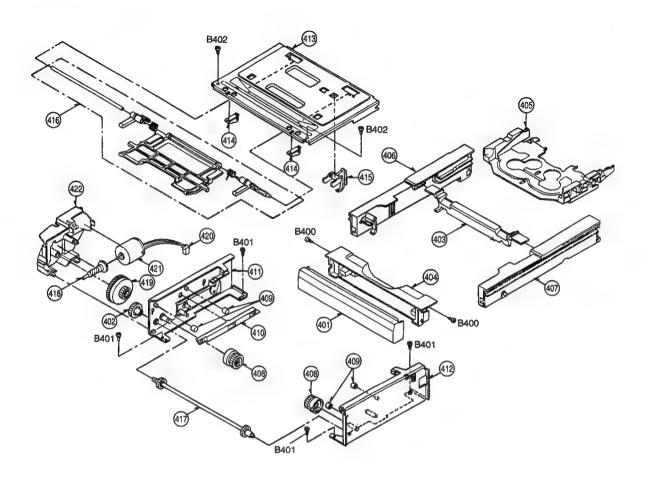


Note:	1.	*Be sure to make your orders of replacement parts according to this list.
	2.	IMPORTANT SAFETY NOTICE
		Components identified with the mark $\Delta$ have the special characteristics for safety. When replacing
ĺ		any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
300	VMD3019	TRAY STOPPER A	1	
301	VMD2853	MIC STOPPER	1	
302	VML3292	COMMUNICATION ARM	1	
303	VML3293	TRAY CONNECTION ROD	1	
304	VXA5575	S-BRAKE SOLENOID BASE	1	
305	VXA5887	T-BRAKE SOLENOID BASE	1	
306	VSJ0216	BRAKE SOLENOID	2	
307	VXA6012	MIC CONNECTOR (1) ASS'Y	1	
308	VXL2777	MIC DRIVE ARM (1) ASS'Y	1	
				•

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
309	VXL2780	MIC SUBLINK ARM (1) ASS'Y	1	
310	VEK8225	PHOTO SENSOR HOLDER (1)	2	
311	VXK1352	SUB CHASSIS (2) ASS'Y	1	
312	VXP1842	LOCK GEAR (1) ASS'Y	1	
313	VSC4699	SHIELD CASE B	1	
B300	XQN2+CF3	SCREW	10	
B301	XQN2+A1.5	SCREW	4	
B302	XQN2+CF4	SCREW	1	
B303	XYN26+J5	SCREW	4	
W300	VMX0967	CUT WASHER	4	
W301	VMX0653	CUT WASHER	1	
W302	VMX1548	CUT WASHER	2	
W303	VMX1079	CUT WASHER	1	

#### **5** CASSETTE TRAY PARTS SECTION



Note: 1. 'Be sure to make your orders of replacement parts according to this list.

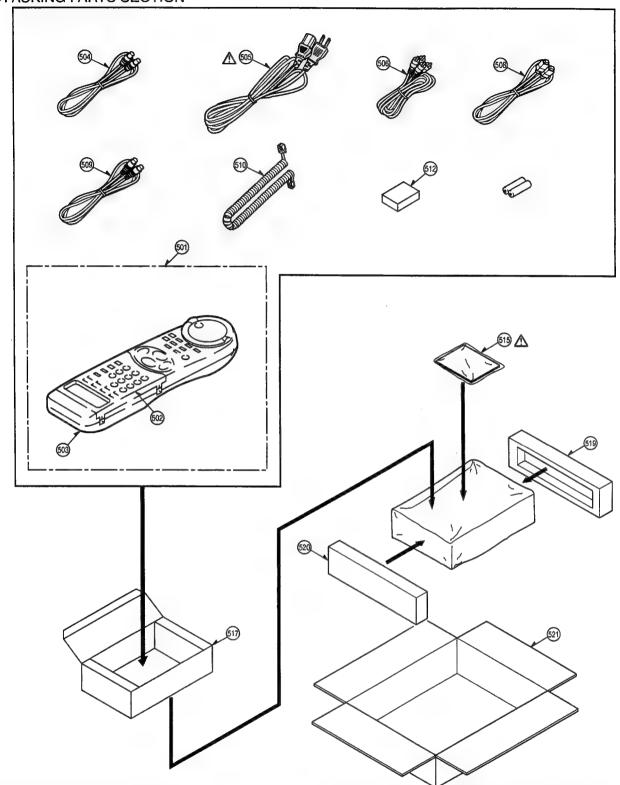
2. IMPORTANT SAFETY NOTICE

Components identified with the mark . have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Descripti	orPcs	Remarks
401	VGP4573	TRAY FRONT PANEL	1	
402	VDG1283	SYNCHRO. DRIVE GEAR	1	
403	VMD2845	REAR GUIDE	1	
404	VMD2846	FRONT GUIDE	1	
405	VXA5990	CASSETTE HOLDER ASS'Y	1	
406	VXA5991	E RACK ASS' Y	1	
407	VXA5992	T RACK ASS' Y	1	
408	VDG1280	PINION GEAR	2	
409	VDP1687	ROLLER	4	

Ref. No.	Part No.	Part Name & Description	orPcs	Remarks
410	VMD2847	FRONT PROJECTION	1	
411	VXA6023	SIDE PLATE (S)	1	
412	VXA6024	SIDE PLATE (T)	1	
413	VMA9797	CASSETTE COVER	1	
414	VMD2849	TOP GUIDE	2	
415	VML3395	COVER OPEN LEVER	1	**************************************
416	VXA5999	BOOSTER (1) ASS'Y	1	
417	VXA6000	TRAY DRIVE SHAFT ASS'Y	1	
418	VDG1264	WORM GEAR	1	
419	VDG1265	WORM FOIL GEAR	1	
420	VEE0B83	MOTOR WIRE CABLE	1	
421	VEM0644	TRAY MOTOR	1	
422	VMD2850	GEAR BOX	1	
				<del></del>
			11-	
8400	XTB26+8JFZ	SCREW	2	
B401	XSN2+3R	SCREW	4	·
B402	XTB2+35FFY	SCREW	2	

#### **6** PACKING PARTS SECTION



Note: 1. "Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE

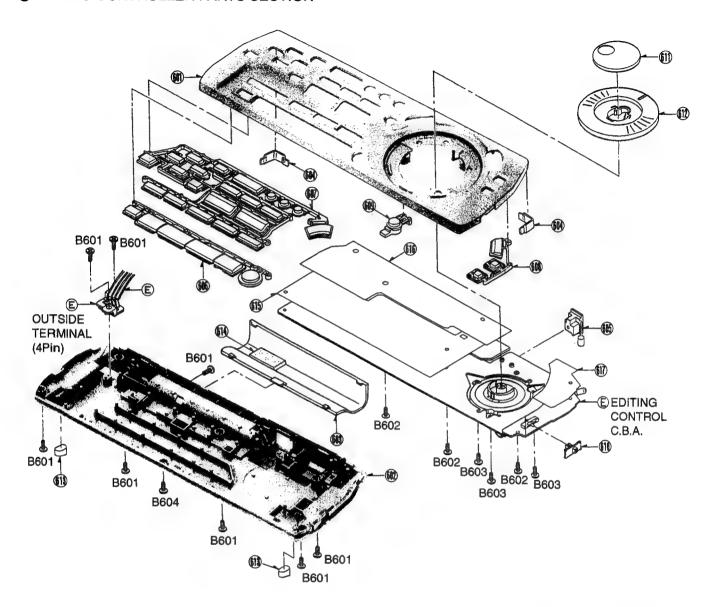
Components identified with the mark 

A have the special characteristics for safety. When replicancy of these components, use only the same type.

Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks
501	EUR571603	REMOTE CONTROLLER 1	
504	VJA0658	S-VHS CABLE 1	
₫ 505	VJA0488	POWER CODE 1	
506	VJA0788	AV OUTPUT CABLE 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
508	VJA1011	DV CABLE	1	
509	VJA0787	EDIT 5P CABLE	1	
510	VJA1045	CONTROLLER CABLE	1	
512	VFK1451	VIDEO HEAD CLEANING TAPE	1	
<b>▲</b> 515	VQT7774	OPERATING INSTRUCTION	1	(ENGLISH)
<b>⚠</b> 515	VQT7775	OPERATING INSTRUCTION	1	(FRENCH)
517	VPK2111	ACCESSORIES PACKING	1	
519	VPN4748	CUSHION (R)	1	
520	VPN4749	CUSHION (L)	1	
521	VPG9182	PACKING	1	

#### FÉDITING CONTROLLER PARTS SECTION



Note:	<ol> <li>'Se sure to make your orders of replacement parts according to this list.</li> <li>IMPORTANT SAFETY NOTICE         Components identified with the mark</li></ol>

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
601	UR57CS612D	UPPER CASE	1	
602	UR57CS613B	LOWER CASE	1	
603	UR57EC614B	BATTERY DOOR	1	
604	UR57EC615A	SMOKE PLATE	2	
605	UR57FT616B	CAP	1	
608	UR57BT617C	BUTTON A	1	
607	UR57BT618C	BUTTON B	1	
608	UR57BT619C	BUTTON C	1	
609	UR57BT620AA	BUTTON D	1	·
610	UR57TM621B	SW KNOB	1	
				·

Ref. No.	Part No.	Part Name & Description	rPcs	Remarks
611	U19TM2069	KNOB A	1	
612	U19TM2070	KNOB B	1	
613	UR57GL625AA	F00T	2	
614	UR57DP641	DUMPER	1	
615	UR57ST622A	STATIC PROOF SHEET	1	
616	UR57ST623B	STATIC PROOF SHEET	1	
617	UR57ST624A	STATIC PROOF SHEET	1	
,			П	
B601	XTB2+6GFZ	COPEN		
		SCREW	8	
B602	XTB2+5GFZ	SCREW	3	
B603	XTB26+5GFZ	SCREW	3	
	XTB2+4GFZ	SCREW	1 .	

- Note: 1. Be sure to make your orders of replacement parts according to this list.

  2. IMPORTANT SAFETY NOTICE: Components identified with the mark \( \Delta \) have the special characteristics for safety. When replacing any of these components, use only the same type.

  3. Unless otherwise specified,
  All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.

  4. The P.C. Board units marked width "II" show below the main assembled parts.

  5. The marking (RT1) indicators the retention time is limited for this item.

		marked width "" show below the main						1		
		dicaters the retention time is limited for on of this assembly in production, it wi			C2001	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22	1	1	
	THE GISCORNINGS	or or this assembly in production, it we	IN HQ	longer be available.	C2002-04		C. CAPACITOR CH 16V 0. 1	-	3	
							C. CAPACITOR CH 50V 12	-	2	
Ref. No.	Part No.	Pant Nama & Danamintin	J	n i				-+		
REL. NO.	Tart No.	Part Name & Description	rc:	Remarks				-	3	
	VEP08C02C	W.W. 0. 0. 4	١.,		C2010	ECSTOJD107Z		-	1	
	VEPUBCUZC	MAIN C. B. A.	1	(RTL)			C. CAPACITOR CH 16V 0.1	1	3	
			<del> </del> _	THE FOLLOWING C. B. A. S		ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01	J.	2	
			L	ARE INCLUDED IN	C2016	ECUX1C105ZFN	C. CAPACITOR CH 16V 1	ı	1	
				MAIN C.B.A.	C2018	ECUX1C105ZFN	C. CAPACITOR CH 16V 1	ī	1	
				VEP03D99A	C2019	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10	ī	1	
				VEP03E28A	C2020	ECIX1C1057EN	C. CAPACITOR CH 16V 1	-+-	1	
	1		$\vdash$	VEP03E29A	C2021	ECSTOJY106Z		-	_	
			+-	VEP03D98B	G2022			-	1	
	<del> </del>		┼					+	1	
	<del> </del>	<del>                                     </del>	-	VEP04669B	C2023		T. CAPACITOR CH6. 3V 10	+	1	
				VEP06C89A	C2024	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 011	1	1	
			L	VEP079738	C2025	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1	1	1	
				VEP07801AR	C2026	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10	ij	1	
	VEP03099A	ANALOG C. B. A.	1	(RTL)	C2027-30	ECUX1C104ZFV	C. CAPACITOR CH 16V 0, 11	ı	4	
				INCLUDED IN	C2042-45		C. CAPACITOR CH 16V 0.11	+	4	
			$\vdash$	MAIN C. B. A. (VEP06C02C)	02501		C. CAPACITOR CH 50V 0.11	+	1	
	VEP03E28A	INPUT/OUTPUT C. B. A.	1	(RTL)		ECEATCKA101	E. CAPACITOR 16V 100L	-	2	
		1111 017 0011 01 0.0.7.	H.	INCLUDED IN				+	_	
			H				E. CAPACITOR 16V 100	+	2	
		<del> </del>	-	MAIN C. B. A. (VEP06C02C)			C. CAPACITOR OH 50V 0. 10		2	
			L	INCLUDING THE	C2509		E. CAPACITOR 16V 100L	-	1	
				REAR JACK C. B. A.	C2510	ECUX1H682KBN	C. CAPACITOR CH 50V 6800F		1	
				(VEP03E29A)	C2511	ECEA1CKA101	E. CAPACITOR 16V 100L	ī	1	
	VEP03E29A	REAR JACK C. B. A.	1	(RTL)	C2512, 13	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1L	1	2	
				INCLUDED IN	C2514	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 011	-	1	
				INPUT/OUTPUT C. B. A.	C2515		C. CAPACITOR CH 50V 1000F	-	i	
			_	(VEP03E28A)				+		
	VEP03D98B	DIGITAL C. B. A.	1	(RTL)	C2521	ECEATCKA101		+	2	
		272117A2 0. 5. 71.	<u>'</u>		-		E. CAPACITOR 16V 100L	+	1	
			H	INCLUDED IN	C2522		C. GAPACITOR CH 50V 0.1L	+	1	
			<u> </u>	MAIN C. B. A. (VEP06C02C)	C2523, 24		C. CAPACITOR CH 50V 0, 011	1	2	
	VEP04869B	AUDIO C. B. A.	1	(RTL)	C2525	ECUX 1 H682KBN	C. CAPACITOR CH 50V 6800F	1	1	
				INCLUDED IN	C2526	ECEATCKA101	E. CAPACITOR 16V 100L	ī	1	
				MAIN C. B. A. (VEP08C02C)	C2527	ECUM1H104ZFN	C. CAPACITOR OH 50V 0.1L	ī	1	
	VEP06C89A	MOTOR DRIVE C. B. A.	1	(RTL)	C2528, 29	ECUX 1H682KBN	C. CAPACITOR CH 50V 8800F	1	2	
			Г	INCLUDED IN	C3001	ECUX1A105KBN	C. CAPACITOR CH 10V 1L	1	1	
				MAIN C. B. A. (VEP06C02C)	C3002		C. CAPACITOR CH 50V 0. 01L	+	1	
	VEP07973B	NICAM DECODER PACK C. B. A.	1	(RTL)	C3003		T. CAPACITOR CH6. 3V 10L	+-	i	
			<del>'</del>	INCLUDED IN	C3004, 05			+-		
			-		C3008				2	
	VEP07801AR	TV DEMONII ATOD DAGY C D A	-	MAIN C. B. A. (VEP06C02C)			C. CAPACITOR CH 50V 0. 01L	+	1	
	VEPUTOUTAR	TV DEMODULATOR PACK C. B. A.	-	(RTL)	C3007		C. CAPACITOR CH 16V 1L	4	1	
			L.	INCLUDED IN	C3008		C. CAPACITOR CH6. 3V 2. 2L	1	1	
				MAIN C. B. A. (VEP08C02C)	C3010~12	ECUX1C104ZFV	C. CAPACITOR CH 18V 0.1L	1	3	
					C3013	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01L	T	1	
	VEP05351A	HEAD AMP C.B.A.	1	(RTL)	C3014	ECSTOJY106Z	T. GAPACITOR CH6. 3V 10L	T	1	
					C3015	ECST1CY335Z	T. CAPACITOR CH 16V 3.3U	1	1	
	VEP02557A	MECHANISM DRIVE C. B. A.	1	(RTL)	C3016		C. CAPACITOR CH 50V 0. 01U		1	
					C3017		T. CAPACITOR CH6. 3V 10U	+-	1	
	VEP07A05A	TIMER C. B. A.	1	(RTL)	C3018			+-	-	
			÷	U(TE/	C3019		C. CAPACITOR CH 50V 0. 01U	_	-	
	VEP03E91A	FRONT (L) C. B. A.	-	(RTL)			T. CAPACITOR CH6. 3V 10U	+	1	
	VEI GOLDIA	TROWN (E) C, B. A.	-	(RIL)	C3020		C. CAPACITOR CH 16V 1U		1	
			-		C3021	ECST1CY684Z	T. CAPACITOR CH 16V 0.68U	L	1	
	VEP04728A	FRONT (R) C. B. A.	_1	(RTL)	C3023	ECUX1H681JCV	C. CAPACITOR CH 50V 680P		1	
					C3024	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	Т	ग	
	VEP07966A	MODULAR C. B. A.	1	(RTL)	C3025	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	T	1	
					C3026	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	†	1	
	VEP07965A	FRONT LED C. B. A.	1	(RTL)	C3027		C. CAPACITOR CH 50V 15P	4-	1	
					C3028-30		C. GAPACITOR CH 50V 0. 01U	+-	3	
	VEP07968A	IR C. B. A.	1	(RTL)	C3031		C. CAPACITOR CH 10V 1U	-	7	
			÷	WIE/	C3032			+-	-	
	VEPO3E18A	5P JACK C. B. A.		(DTL)			T. CAPACITOR CH6. 3V 10U		1	
	TET USE TOA	UNUN U. D. M.	- 1	(RTL)	C3033		C. CAPACITOR CH 50V 0. 01U		1	
	VEDATOR:	DV 440K 0.5		(	C3034		C. CAPACITOR CH 16V 0. 027U	L	1	
	VEP07967A	DV JACK C. B. A.	_1	(RTL)	C3035		C. CAPACITOR CH 50V 0.01U		1	
					C3036	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	Г	1	
	VEP01839A	POWER C. B. A.	1	(RTL)	C3037	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	1	1	
					C3038, 39		C. CAPACITOR CH 50V 100P	+	2	
	UR57VPB623	EDITING CONTROL C. B. A.	1	(RTL)			C. CAPACITOR CH 16V 1U	+	2	
			$\neg$		C3042		C. CAPACITOR CH 50V 0.01U			
								-		
			$\dashv$		00070 04	- JON 1 0 1 0 42 1 V	C. CAPACITOR CH 16V 0.1U	1	4	
			-					L	4	·
		I	. 1					1	- i	

Ref. No.

Part No.

■ VEP06C02C

Part Name & DescriptionPcs

MAIN C.B.A.

Remarks

1 (RTL)

r						T		
Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
C3055-59	ECUX1H103ZFV	C. CAPACITOR EH 50V 0.01U 5		C3264	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	_	
C3062-65	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 4		C3265		C. CAPACITOR CH 16V 0, 1U	+-	· · · · · · · · · · · · · · · · · · ·
C3066	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U 1		C3267		C. CAPACITOR CH 50V 0.01U	+-	<del></del>
C3067		T. CAPACITOR CH6. 3V 22U 1		C3280		T. CAPACITOR CH6. 3V 100U	+	<del> </del>
C3068-72		C. CAPACITOR CH 16V 0.1U 5		C3301		C. CAPACITOR CH 16V 0. 1U	<del>  i</del>	
		C. CAPACITOR CH 50V 0.01U 5		C3302			+ -	<del></del>
		C. CAPACITOR CH 50V 7P 2		C3302			1	·
C3080						C. CAPACITOR CH 50V 100P	1	
C3081				C3304		C. CAPACITOR CH 50V 100P	1	
		C. CAPACITOR CH 16V 0.1U 1		C3305		C. CAPACITOR CH 25V 1000P	1	
C3082	<del></del>	C. CAPACITOR CH 50V 100P 1		C3306		C. CAPACITOR CH 50V 100P	1	
C3083		C, CAPACITOR CH 16V 0.47U 1		C3307	ECUX1H101JCQ	C. CAPACITOR CH 50V 100P	1	
C3084		C. CAPACITOR CH 16V 0. 22U 1		C3308~10	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	3	
C3085	ECUX1H473ZFV	C. CAPACITOR CH 50V 0. 047U 1		C3311	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
C3086, 87	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 2		C3312	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3090, 91	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 2		C3313-16	ECUX 1H1 02KBV	C. CAPACITOR CH 50V 1000P	4	
C3092	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P 1		C3317		C. CAPACITOR CH 50V 100P	1	
C3093-96	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U 4		C3318		C. CAPACITOR CH 50V 1000P	1	
C3097, 98	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 2		C3319		C. CAPACITOR CH 50V 47P	1	<del></del>
		C. CAPACITOR CH 50V 0. 01U 2		C3320			+	
		C. CAPACITOR CH 16V 0.1U 2		C3321			1	<del>+</del>
C3103						C. CAPACITOR CH 50V 47P	1	
		C. CAPACITOR CH 50V 0.01U 1			***	C. CAPACITOR CH 50V 100P	3	<del>                                     </del>
		C. CAPACITOR CH 16V 0.1U 2		C3325		C. CAPACITOR OH 50V 100P	1	
C3108		C. CAPACITOR CH 16V 0. 22U 1		C3326		C. CAPACITOR CH 50V 100P	1	
C3111		C. CAPACITOR CH 50V 0.01U 1		G3327		C. CAPACITOR CH 50V 100P	1	
C3116		T. CAPACITOR CH6. 3V 10U 1		C3328	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.11	1	
03117		C. CAPACITOR CH 50V 0.01U 1		03329, 30		C. CAPACITOR CH 50V 100P	2	
C3151	ECUX1A105KBN	C. CAPACITOR CH 10V 1U 1		C3331		C. CAPACITOR CH 50V 1000P	1	<del> </del>
C3152, 53	ECUX1H150JCV	C. CAPACITOR CH 50V 15P 2		03332, 33		C. CAPACITOR CH 50V 100P	2	<del></del>
C3154		C. CAPACITOR CH 10V 1U 1		C3334		C. CAPACITOR OH 50V 1000P	1	
C3155, 56	ECUX1H180JCV	C. CAPACITOR CH 50V 18P 2		C3335		C. CAPACITOR CH 50V 100P	1	
C3157		C. CAPACITOR CH 16V 0. 1U 1		C3336		C. CAPACITOR CH 50V 1000P	1	
C3158		C. CAPACITOR CH 10V 1U 1		C3337			-	
		C. CAPACITOR CH 50V 0. 01U 2				C. CAPACITOR GH 50V 100P	1	
				C3338		C. CAPACITOR CH 25V 1000P	1	
				C3339		C. CAPACITOR CH 16V 0.1U	1	
C3205		T. CAPACITOR CH6, 3V 10U 1		C3340		C. CAPACITOR CH 25V 1000P	1	
		C. CAPACITOR CH 50V 0.01U 1			ECUX1C104ZFQ	C. CAPACITOR CH 18V 0.1U	2	
C3207		C. CAPACITOR CH 50V D. 01U 1		C3343	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
C3208		C. CAPACITOR CH 16V 0.1U 1		C3344	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
		C. CAPACITOR CH 50V 0.01U 3		C3345	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
		C. CAPACITOR CH 16V 0.1U 2		C3346	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
03214		C. CAPACITOR CH 16V 0, 1U 1		C3347	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
03215		T. GAPACITOR CH6. 3V 10U 1		C334B	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3216-18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 3		C3349	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
C3219	ECUX1C273KBV	C. CAPACITOR CH 16V 0. 027U 1		C3350	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3220-22	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U 3		C3351		C. CAPACITOR CH 50V 100P	1	
C3223	ECUX1A105K8N	C. CAPACITOR CH 10V 1U 1		C3352		C. CAPACITOR CH 50V 1000P	1	
C3224	ECSTOJY108Z	T. CAPACITOR CH6. 3V 10U 1		C3353		C. CAPACITOR CH 25V 1000P	1	
C3225-27		C. CAPACITOR DH 50V 0. 01U 3					3	
C3228		C. CAPACITOR CH 16V 0. 1U 1					-	
						C. CAPACITOR CH 25V 1000P	3	
C3230						C. CAPACITOR CH 50V 100P	-	
		C. CAPACITOR CH 50V 0. 01U 1				C. CAPACITOR CH 50V 1000P	1	
C3231		C. CAPACITOR CH 50V 1500P 1		C3363	ECUX1H101JC0	C. CAPACITOR CH 50V 100P	1	
03232		C. CAPACITOR DH 50V 0.01U 1				C. CAPACITOR CH 50V 100P	1	
	-	C. CAPACITOR CH 50V 0.01U 2				C. CAPACITOR CH 50V 100P	1	
03235	<del></del>	C. CAPACITOR CH 50V 680P 1		C3366	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.1U	1	
		C. CAPACITOR CH 50V 0.01U 3		C3367	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C3239	ECSTOJY106Z	T. CAPACITOR CH6, 3V 10U 1		C3368-70		C. CAPACITOR CH 16V 0.1U	3	
C3240		C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 50V 100P	2	
C3241, 42	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 2		C3373		C. CAPACITOR CH 25V 1000P	1	
C3243	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1		C3374-78		C. CAPACITOR CH 16V 0.1U	5	
C3244	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		C3379		C. CAPACITOR CH 50V 1000P	1	-
C3245	·	T. CAPACITOR CH8. 3V 10U 1		C3401		C. CAPACITOR CH 50V 0.01U	1	
C3246		C. CAPACITOR CH 50V 0.01U 1					-	
C3247		T. CAPACITOR CH6. 3V 10U 1					2	
						E. CAPACITOR 6. 3V 100U	1	
C3250				C3408		C. CAPACITOR CH 50V 1000P	1	
				C3412		C. CAPACITOR CH 50V 0. 01U	1	
		C. CAPACITOR CH 50V 0.01U 3				E. CAPACITOR 16V 10U	2	
C3254		C. CAPACITOR CH 16V 0.1U 1				C. CAPACITOR CH 50V 0.01U	1	
		C. CAPACITOR CH 50V 0.01U 2		C3416	EEVHB0J101	E. CAPACITOR 6.3V 100U	1.	
C3257		T. CAPACITOR CH8. 3V 47U 1		C3417	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	
C3258	ECUX1C104ZFV	C. CAPACITOR CH 16V 0, 1U 1		C3438		C. CAPACITOR CH 50V 0.01U		
C3259	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1		C3439		E. CAPACITOR 16V 10U	1	
C3260	ECUX1C104ZFV	C. CAPACITOR OH 16V 0.1U 1		C3501		E. CAPACITOR 6.3V 100U	H	
C3261		C. CAPACITOR CH 50V 0.01U 1		C3502		C. CAPACITOR CH 50V 0.01U	H	
C3262		T. CAPACITOR CH6. 3V 10U 1				C. CAPACITOR CH 50V 1000P	2	
					- January		-	
	1							
		<del></del>						

	<del>,</del>		_						
Ref. No.	Part No.	Part Name & Description	Pc:	Remarks	Ref. No.	Part No.	Part Name & Description	* D.	es Remarks
C3505-07	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	3		C3713		C. CAPACITOR CH 18V 1L	_	1 Remarks
C3511		C. CAPACITOR DH 50V 0. 1U	1		C3714			-	
C3512		C. CAPACITOR CH 16V 0.1U	+					<del></del>	1
			<u> </u>			<del></del>	C. CAPACITOR CH 16V 0, 1L	1	4
C3513	<del> </del>	C. CAPACITOR OH 50V 470P	1.1		C3719-21	<del></del>	T. CAPACITOR CH8. 3V 10L	1] :	3
C3514	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	1		C3722-25	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1L	ı .	4
C3515	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1		C3727	ECUX1C104ZFV	G. CAPACITOR CH 16V . O. 1L	j i	1
C3516	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1		C3802	<del></del>	C. CAPACITOR CH 50V 580F	+	1
C3517	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1		C3803	EEVHB1C100		+-	1
C3518		C. CAPACITOR CH 16V 0. 1U	+					-	
				I	C3804	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01L	1	1
C3519		C. CAPACITOR CH 50V 22P	1		C3806	EEVHB1H3R3	E. CAPACITOR CH 50V 3.3L	1 '	1
C3520	EEVHBOJ470	E. CAPACITOR 6, 3V 47U	1		C3807	EEVHB0J101	E. CAPACITOR 6. 3V 100L	J :	1
C3521	EEVHBOJ101	E. CAPACITOR 6.3V 100U	1		C3808	ECUX1H392KBN	C. CAPACITOR CH 50V 3900F	,	1
C3522	EEVHB1H1R0	E. CAPACITOR 50V 1U	1		C3809	EEVHB1H1R0	E. CAPACITOR 50V 1L	-	1
C3523	EEVHB1E4R7	E. CAPACITOR 25V 4. 7U			C3810			-	<del></del>
C3524		C. CAPACITOR CH 50V 0. 01U	i					+-	1
			⊢÷		C3811		C. CAPACITOR CH 50V 9F		1
C3525		C. CAPACITOR CH 50V 33P	1		C3812		C. CAPACITOR CH 50V 580F		1
C3526	ECUN1H331JCN	G. CAPACITOR CH 50V 330P	1		C3814	ECUM1H270JCN	C. CAPACITOR CH 50V 27F	1	1
C3527	EEVHB1H3R3	E. CAPACITOR: CH 50V 3. 3U	1		C3815	EEVHB0J101	E. CAPACITOR 6.3V 100L		1
C3528	ECUM1E153KBN	C. CAPACITOR CH 25V 0. 015U	1		C3816	ECUX 1H1037FV	C. CAPACITOR CH 50V 0. 01U	-	1
03529, 30	1	C. CAPACITOR CH SOV 1000P	2		C3818			+	
03531	+	C. CAPACITOR CH 16V 0. 1U	1				C. CAPACITOR CH 16V 1U	-	
03535			H		C3819		E. CAPACITOR 6. 3V 100L	-	4
	EEVHBOJ101	E. CAPACITOR 6. 3V 100U	1		C3820		C. CAPACITOR UH 50V 22P	1	1
C3601		C. CAPACITOR CH 50V 0. 01U	1		C3822	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	1
C3602	VCEA0JBS101	E. CAPACITOR 6. 3V 100U	1		C3823	ECUM1H330JCN	C. CAPACITOR CH 50V 33P		1
C3603	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1		C3901		C. CAPACITOR CH 50V 0. 1U	+-	1
C3604	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1		C3902		C. CAPACITOR CH 50V 0. 01U	+	4
C3606	VCEAOJBS101	E. CAPACITOR 8. 3V 100U	1	<del></del>				+	1
C3608	VCEAOJBS101		÷		C3903		E. CAPACITOR 6. 3V 22U	+	
		E. CAPACITOR 8. 3V 100U	1				C. CAPACITOR CH 50V 0. 01U	3	3
		E. CAPACITOR 16V 10U	1		C3908	ECEAOJKA220	E. CAPACITOR 6. 3V 22U	1	1
	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1		C3911-14	ECUM1H103ZFN	C. CAPACITOR CH 50V 0, 01U	4	4
C3618	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1		C3915		C. CAPACITOR CH 50V 0.1U	+	
C3621, 22		C. CAPACITOR CH 50V 0. DIU	2		C3918		E. CAPACITOR 6, 3V 22U	+	,1
C3823	ECEA1EKA4R7		1					$\overline{}$	<u> </u>
	ECAOJM221		÷		C3920	ECEAOJKA220		+	
			1		C3921		E. CAPACITOR 16V 47U	1	1
C3825		C. CAPACITOR CH 50V 0.01U	1			ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	2
C3626	ECEA1CKA100		_1		C4006	ECEA1CU101	E. CAPACITOR 16V 100U	1	
C3627	ECAOJM331	E. CAPACITOR 6. 3V 330U	1		C4007	VCEA1CAS220	E. CAPACITOR 16V 22U	+	
C3628	ECEATCKA100	E. CAPACITOR 16V 10U	1		C4008		C. CAPACITOR CH 50V 0. 22U	+	
C3629	ECAOJM331	E. CAPACITOR 6. 3V 330U	1		C4009	VCEA1CAS220		+	
C3630		C. CAPACITOR CH SOV 0. 01U	1					-	
C3631			-			VCEA1CAS102		-	2
		E. CAPACITOR 16V 10U	1		C4012		E. CAPACITOR 16V 22U	1	1 }
C3632		E. CAPACITOR 6. 3V 47U	1		C4013, 14	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	2
C3633	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	_1		C4015	ECEA1CKA100	E. CAPACITOR 16V 10U	П	
C3634	VCEA0JBS470	E. CAPACITOR 6. 3V 47U	1		C4016, 17	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	+	,
C3635, 36	VCEA0JBS101	E. CAPACITOR 8. 3V 100U	2				P. GAPACITOR 50V 0. 022U	+	
C3637		C. CAPACITOR CH 50V 0. 01U	1						
C3638	VCEAOJBS101					VCEA1CAE100		-	<u> </u>
		E. CAPACITOR 6.3V 100U	_1		C4203		C. CAPACITOR CH 50V 33P	1	1
C3639	VCEA1ABS470	E. CAPACITOR 10V 47U	1		C4206	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3640	VCEA0JBS101		-1		C4207	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
03641, 42	ECUM1H1 03KBN	C. CAPACITOR CH 50V 0. 01U	2				C. GAPACITOR CH 50V 33P	-	
		E. CAPACITOR 6. 3V 47U					T. CAPACITOR CH6. 3V 10U	+-	
C3645		C. CAPACITOR CH 50V 0. 01U	_	-	C4213			+	
	VCEA0JBS470		-				C. CAPACITOR CH 16V 0. 1U	+	
			_		C4214		C. CAPACITOR OH 50V 33P	1	
	ECEA1EKA4R7		_1		C4215	ECUX 1H1 52KBV	C. CAPACITOR CH 50V 1500P	1	
		P. CAPACITOR 50V 0.1U	1		C4217	ECSTOJY108Z	T. CAPACITOR CH6. 3V 10U	1	
	ECUM1H103KBN	C. CAPACITOR CH SOV 0. 01U	1				C. CAPACITOR OH 16V 0. 1U	+-	
C3652	ECEA1AKA470	E. CAPACITOR 10V 47U	1				T. CAPACITOR CH6. 3V 10U	_	<del>-</del>
C3653		E. CAPACITOR 25V 4. 7U	1					+	
		C. CAPACITOR CH 50V 1500P	i						
				I -			C. CAPACITOR OH 50V 33P	+	+
		P. CAPACITOR 3900P	1				C. CAPACITOR CH 50V 1500P	2	
		P. CAPACITOR 50V 1500P	_1		C4302	VCEATAAE101	E. GAPACITOR 10V 100U	1	
	ECEA1HKGR68	E. CAPACITOR 50V 0. 68U	1		C4303	ECHR1H103JZ		+	
C3658	ECEAOJKA330	E. CAPACITOR 8. 3V 33U	1				C. CAPACITOR CH 50V 0. 1U	+	
C3659		C. CAPACITOR CH 50V 580P	1					-	
	ECEAOJKA221		-				E. CAPACITOR 6.3V 220U	-	
	ECEA50MR33						C. CAPACITOR CH 50V 0.1U	1	
			1				E. CAPACITOR 6.3V 220U	1	
		C. CAPACITOR CH 50V 0. 01U	1		C4308	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	ī	
		C. CAPACITOR CH 50V 470P	-1		C4309	ECUM1H330JCN	C. CAPACITOR CH 50V 33P		
C3664	ECQV1H683JM	P. CAPACITOR 50V 0. 068U	1				C. CAPACITOR CH 16V 0.1U	-	<del> </del>
C3701, O2		C. CAPACITOR CH 16V 0. 1U	2					-	<b></b>
		C. CAPACITOR CH 50V 1000P	1					+	<del> </del>
			3				C. CAPACITOR CH 50V 33P	1	
						ECEA1CKA100		1	
		C. CAPACITOR CH 50V 1000P	-1		C4314	ECUMI H330JCN	C. CAPACITOR CH 50V 33P	1	
		C. CAPACITOR CH 50V 6P	2		C4315	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1	
C3710-12	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3			VCEA1CAE100		1	
			-1				100	+	t
			-1				<del></del>	$\vdash$	<del> </del>
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Dec.   Col.		<del></del>								
DESTITE   CONTINUES CONTINUES OF STATE 1	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref No	Part No	Part Name & Description	Ь.	Banasia.
Color   Colo				1					-	
COMPAND   COMP				<del>  '</del>					+	<del></del>
DESTITE   CHARGE   CANADITION   6.97   4.01   1   1   1   1   1   1   1   1   1				<del>                                     </del>						3
Color   Colo		ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	C	26033, 34	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1 2	2
Common Common	C4320	VCEA0JAE470	E. CAPACITOR 6. 3V 47U	1	C	08035	ECUX1C104ZFV	C. CAPACITOR CH 16V 0, 1U	1	
CAMPAIN   CAMPAIN CONTROL	C4321	ECHR1H103JZ	P. CAPACITOR 50V 0. 01U	1	C	26036	ECUX1C105ZFN		1	
DESIDE   CARRESTON   CARREST	C4322	ECUM1E683KBN	C. CAPACITOR CH 25V D 083H	1					1	
COMPANY   COMP		<del> </del>		H						-
ACMAND   CALLANDER   CALLAND			· · · · · · · · · · · · · · · · · · ·	+					1	
CHARLES   CAMPATTON   CAMPAT					C	28044	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U		
CASE   CONTINUED   PARATICAL POWER TOWN   200   2   2   2   2   2   2   2   2	C4325, 26	VCEA1HAE2R2	E. CAPACITOR 50V - 2. 2U	2	C	8045-47	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	3	3
CHEMIN DEL	C4327	VCEAOJAE470	E. CAPACITOR 6. 3V 47U	1	C	8201, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01LL	1 2	
CASTAN   CASTANTINE   CAPACITOR   SOV   2	C4328	ECHR1H103JZ	P. CAPACITOR 50V 0.01U	1	C				1	
Design   Counterpass   Count	C4329 30			-					+-	+
CASTAN   CARRIANTON   CAPACITOR   197   100   2				+					+	
COMMISS ARE STANDARD   COMMISS DE CAUTION   SOY   20   2				H					$\perp$ 1	
CASTS   CAST				2	C	8206	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
Decay   Committed   Committe	C4334	ECUMINIO4ZFN	C. CAPACITOR CH 50V 0.1U	1	C	6207	ECEAOJKA470	E. CAPACITOR 6.3V 47U	1	
Decay   Decay   Company   Decay   De	C4335, 36	VCEA1HAE2R2	E. CAPACITOR 50V 2. 2U	2	C	8208	ECUM1H104ZFN	C. CAPACITOR CH 50V 0 1U	1	
MASS   CERNANDUM CAP   CAPACITICE   6.39   1000   1	C4337	ECEA1CKA100	E. CAPACITOR 18V 10U	1					1—	4
CASH   CASH				÷					-	<del></del>
CASH-04-14   VICAL-MERCER   CAMPACTION   50V   2   9   9   9   9   9   9   9   9   9									-	
MASS   CAMPATTON   190   3   1970   2   19				-				E. CAPACITOR 16V 47U	2	
GAM-14, 48   ESAMINICATING CO-AMPLITOR CH 500 0, 1U   2   1   1   1   1   1   1   1   1   1				2	CE	6704	VCEA1CBS100	E. CAPACITOR 16V 10U	1	
GAM-14, 6   EGAMINICATE   CAMACITER CH 500   10   2	04342-44	VCEA1CAE100	E. CAPACITOR 16V 10U	3	Ce	6705	ECUM1H103KBN	C. CAPACITOR CH 50V 0. D111	1	
GAMPA   SEMANGRIO   CAMPATITION   190   2	C4345, 46	ECUM1H104ZFN	C. CAPACITOR CH SOV D. 18	2					+	
DASSIGN   CAMBRITOR CHI SOY 0, 10   1   1   1   1   1   1   1   1   1				2					+-	
OCT-95    VERTINATION   CAPACITION   FIRST   1.00   1				٠					-	
CASS    EQNAMINGER  CAPACITICR CH 507 0. U. U. 1				1					1	
General Control   Control Co				1	CE	8709	VCEA0JBS470	E. CAPACITOR 6. 3V 47U	1	
General Control   Company   Compan	C4351	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	CE	6710	VCEA0JBS101	E. CAPACITOR 6. 3V 100U	1	
CASSS    EQUATION   CAPACITOR OF 187   0.10   1   1   1   1   1   1   1   1   1	C4352	ECEA1CKA101	E. CAPACITOR 18V 100U	1	C				-	
CASTA   COLUMNOTO   CAPACITOR   SOV   10   1   1   1   1   1   1   1   1	C4353	ECUX1C104ZEV		1					-	
CAMPATTER COLLEGATION OF A COLLEGATION				H.					-	
CASS   COMMITTORING CONTROLLED   SET				<u> </u>					1	
CASES   COMMINICATE   CAPACITOR OF SWY 0, 11   1   1   1   1   1   1   1   1   1					Ce	6715	VCEA0JBS101	E. CAPACITOR 8, 3V 100U	1	
CASS   CONTRICATED   CAPACITOR OF 189   0.10   1   1   1   1   1   1   1   1   1		ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1	CE	6716	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
CASIS   EQUATIONARY   C.APACITOR CH 19V   0.10   1   1   1   1   1   1   1   1   1	C4357	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	Ce	6717	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
CASTALL   CAMPATION   CAPACITION CH   SOV   0.1U   1	G4358	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1	Ce	6718-20	ECA1CM332	E. CAPACITOR 18V 3300U	3	
CASH   CASH	C4359	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1					-	
CASTR   CAMINTOPER**   CAPACITOR CH 50V 0.1U 1   CASTR   CASTR   CAPACITOR CH 50V 0.1U 1   CASTR   CAMINTOPER**   CAPACITOR CH 50V 0.1U 1   CASTR   CASTR   CAPACITOR CH 50V 0.1U 1   CASTR   CAPACITOR   CAPACITOR CH 50V 0.1U 1   CASTR   CAPACITOR   CAPACITOR CH 50V 0.1U 1   CASTR   CAPACITOR   CAPACITOR CH 50V 0.0U 1   CASTR   CAPACITOR   CAPACITOR CH 50V 0.0U 1   CASTR   CAPACITOR   CAPACITOR CH 50V 0.0U 1   CASTR   CAPACITOR	C4360			1					-	
04393									-	-
CA385 & EDIA INCADE P. CAPACITOR CH 50Y 0.10 1 1 02 0 0728 ECRAJURATO E CAPACITOR C. 3Y 470 1 1 02 0 0728 ECRAJURATO E CAPACITOR C. 3Y 470 1 1 0 0728 EDIA INCADE P. CAPACITOR C. 3Y 470 1 1 0 0728 ECRAJURATO E CAPACITOR C. 3Y 470 1 1 0 0728 EC				-					_1	
GA398 6 EGALIGNATO E CAPACITOR 18V 10U 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 18V 0.10 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 18V 0.10 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 18V 0.10 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.10 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.10 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.10 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.10 1 CA3983 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.10 1 CA3983 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.10 1 CA3983 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 2 CA3983 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 1 CA3981 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 1 CA3984 EQUILITORAÇÃO C. CAPACITOR CH 50V 0.39 1 CA3984 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.09 1 CA3984 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.09 1 CA3984 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.09 1 CA3984 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.09 1 CA3984 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3984 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3985 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3985 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3985 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3986 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3986 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3986 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3986 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3986 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3988 EQUILIBRISAÇÃO C. CAPACITOR CH 50V 0.01 1 CA3988 EQUIL				_	CE	6726	ECUMTH103KBN	C. CAPACITOR CH 50V 0. 01U	_ 1	
CASSES   EQUIX IDICATE   C. CAPACITOR CH 18V   0.1U   1				_1	CE	8727	ECEAOJKA470	E. CAPACITOR 6. 3V 47U	1	
C4393   EQUIX (D1042FV   C. CAPACITOR CH 19V   0.1U   1	C4365, 66	ECEA1CKA100	E. CAPACITOR 16V 10U	2	CE	6728	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1	
C-9398   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.10   1   CR331   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.01   1   CR331   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.01   1   CR331   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.01   4   CR331   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.01   2   CR331   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.01   2   CR331   EQMINITIOZEPIN   C. CAPACITOR CH 50V 0.01   1   CR331   EQMINITIOZEPIN   C.	C4367	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1	CE	6729	ECEA1HKA010		1	
C4371   EDMINISSOUD   C. CAPACITOR CH 50V   33P   1	C4368	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	CE				-	
C4372   EQMINITICAZEN C. CAPACITOR CH 50V 0.1U 1   C4373   EQUINITICAZEN C. CAPACITOR CH 50V 0.0   C4373   EQUINITICAZEN C. CAPACITOR CH 50V 33P 2   C6783   EQUINITICAZEN C. CAPACITOR CH 50V 0.0   C4373   EQUINITICAZEN C. CAPACITOR CH 50V 0.3   C4374   C4374   EQUINITICAZEN C. CAPACITOR CH 50V 0.3   C4374	C4371	ECUM1H330JCN		_					<del>  '</del>	
C4373 74 ECIXI1H330LOV C. CAPACITOR CH 50V 33P 2  C4377 EDAL (CAPACITOR CH 50V 33P 1)  C7901 ECALOMATI E. CAPACITOR CH 50V 0.01U 1  C7901 ECALOMATI E. CAPACITOR CH 50V 0.01U 1  C7902 ECACANIXA10 E. CAPACITOR CH 50V 1  C7903 ECACANIXA10 E. CAPACITOR CH 50V 1  C7903 ECACANIXA10 E. CAPACITOR CH 50V 1  C7904 ECACANIXA10 E. CAPACITOR CH 50V 1  C7905 ECACANIXA10 E. CAPACITOR CH 50V 1  C7905 ECACANIXA10 E. CAPACITOR CH 50V 1  C7906 ECACANIXA10 E. CAPACITOR CH 50V 1  C7907 ECACANIXA10 E. CAPACITOR CH 50V 1  C7908 ECACANIXA10 E. CAPACITOR CH 50V 1  C7914 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C4398 EDUXICIOSEN C. CAPACITOR CH 16V 0.039U 2  C7914 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C44501.02 ECUXICIO-CAPACITOR CH 16V 0.1U 1  C7914 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7915 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7916 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7917 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7918 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7919 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7910 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7910 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7911 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7911 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7911 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7912 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7914 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7915 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7916 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7917 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7918 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7918 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7918 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7910 ECANIHIROSEN C. CAPACITOR CH 50V 0.01U 1  C7910 ECANIHIROS									-	<del> </del>
C4377 ECRATOKATOO E. CAPACITOR CISOV 33P 1 C7801 ECATOMATO E. CAPACITOR CISOV 33P 1 C7802 ECCALINATION E. CAPACITOR CISOV 33P 1 C7802 ECCALINATION E. CAPACITOR CISOV 33P 1 C7803 ECALINATION E. CAPACITOR CISOV 33P 1 C7803 ECALINATION E. CAPACITOR CISOV 33P 1 C7803 ECALINATION E. CAPACITOR CISOV 47U 1 C7813 ECUNITISOLOGY C. CAPACITOR CISOV 0.09U 1 C7814 ECRATOKATO E. CAPACITOR CISOV 0.01U 1 C7815 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7816 ECALINATION E. CAPACITOR CISOV 0.01U 1 C7816 ECALINATION E. CAPACITOR CISOV 0.01U 1 C7817 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7818 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7810 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7811 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7812 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7814 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7815 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7816 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7817 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7818 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7819 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7810 ECALINATISOLOGY C. CAPACITOR CISOV 0.01U 1 C7811 ECUNITISOLOGY C. CAPACITOR CISOV 0.01U 1 C7811 ECUNI				_					-	
C4378 ECUXH330JUV C. CAPACITOR CH 50V 33P 1  07802 ECEADURATOT E. CAPACITOR CH 50V 33P 1  07802 ECEADURATOT E. CAPACITOR CH 50V 33P 1  07803 ECEATOKA70 E. CAPACITOR CH 40V 47U 1  07813 ECUXH1803GUC C. CAPACITOR CH 50V 0.01U 1  07813 ECUXH1803GUC C. CAPACITOR CH 18V 0.039U 2  07814 ECEATOKA70 E. CAPACITOR CH 18V 0.039U 2  07815 ECUXH1803GUC C. CAPACITOR CH 18V 0.039U 2  07816 ECUXH1803GUC C. CAPACITOR CH 18V 0.1U 2  07816 ECUXH1803GUC C. CAPACITOR CH 18V 0.1U 1  07817 ECUXH1803GUC C. CAPACITOR CH 18V 0.1U 1  07818 ECUXH1803GUC C. CAPACITOR CH 18V 0.1U 1  07811 ECUXH1803GUC C. CAPACITOR CH 18V 0.1U 1  07812 ECUXH1803GUC C. CAPACIT				4					2	
C4379-81 ECUMIN33QUON D. CAPADITOR CH 50V 33P 3  O7803 ECRATCKA470 E. CAPADITOR CH 50V 31P 1  O7813 ECUMIN30GUON C. CAPADITOR CH 50V 33P 1  O7813 ECUMINSOGUON C. CAPADITOR CH 50V 0.31P 1  O7813 ECUMINSOGUON C. CAPADITOR CH 50V 0.01U 1  C43818. BE CRIX 13938MOV C. CAPADITOR CH 16V 0.039U 2  O7816 ECUXIN3038MOV C. CAPADITOR CH 16V 0.039U 2  O7817 ECUMINSOGUON C. CAPADITOR CH 50V 0.1U 1  O7818 ECUXIN3038MOV C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUXIN303CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7819 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUMIN302CH C. CAPADITOR CH 50V 0.1U 1  O7810 ECUXIN300CH C. CAPADITOR CH 50V 0.1U 1					C	7901	ECATCM471	E. CAPACITOR 16V 470U	_ 1	
C4382 EUXIN330LOV C. CAPACITOR CH 50V 33P 1  C4388, 85 ECUX 10393RBV C. CAPACITOR CH 16V 0.039U 2  C7914 ECANTORATO E. CAPACITOR CH 50V 0.01U 1  C4503-05 ECXTO140EV C. CAPACITOR CH 16V 0.1U 2  C7915 ECXIN1603LDM C. CAPACITOR CH 50V 0.01U 1  C4505 ECXIN 1042EV C. CAPACITOR CH 16V 0.1U 1  C4505 ECXIN 1042EV C. CAPACITOR CH 16V 0.1U 1  C4505 ECXIN 1042EV C. CAPACITOR CH 16V 0.1U 1  C4505 ECXIN 1042EV C. CAPACITOR CH 16V 0.1U 1  C4505 ECXIN 1042EV C. CAPACITOR CH 16V 0.1U 1  C4505 ECXIN 1042EV C. CAPACITOR CH 16V 0.1U 1  C4703 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4704 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4705 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4705 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4706 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4707 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4708 ECXIN 1042EV C. CAPACITOR CH 50V 0.01U 1  C4709 ECXIN 1042EV C. CAPACITOR CH		ECUX1H330JCV	C. GAPACITOR CH 50V 33P	1		7902	ECEAOJKA101	E. CAPACITOR 6. 3V 100U	1	
C4398 EQUXINGS03KBV C. CAPACITOR CH 50V 0.39P 1  C4394,83 EQUXICGS03KBV C. CAPACITOR CH 16V 0.039U 2  C7914 ECENTICIDAZEV C. CAPACITOR CH 16V 0.1U 2  C7916 ECQUXINGS02KBV C. CAPACITOR CH 16V 0.1U 1  C4503-05 ECSTOJVIORZ T. CAPACITOR CH 16V 0.1U 1  C4503-05 ECSTOJVIORZ T. CAPACITOR CH 16V 0.1U 1  C4515 EQUXICIDAZEV C. CAPACITOR CH 16V 0.1U 1  C4701 EQUXINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4703 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4703 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4703 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4703 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4705 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4706 ECQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4707 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4707 EQUXINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4708 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 50V 0.0U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4709 ECQUINISOZEN C. CAPACITOR CH 16V 0.1U 1  C4700 ECQ	C4379-81	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	3	C	7905	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C4398, 85 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 039U 2  C4501.02 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 11U 2  C7916 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 11U 3  C7917 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 11U 3  C7917 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 11U 1  C4508 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 11U 1  C4515 EQUXICIDAZEV C. CAPACITOR CH 18V 0, 11U 1  C7921 EQEATORATO E. CAPACITOR CH 18V 0, 11U 1  C7921 EQEATORATO E. CAPACITOR CH 18V 0, 11U 1  C7921 EQEATORATO E. CAPACITOR CH 18V 0, 11U 1  C7922 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30001 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 11U 1  C30002 EVHBOJZZO E. CAPACITOR CH 50V 10DP 1  C4703 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 11U 1  C30003 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 11U 1  C30004 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 11U 1  C30005 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30006 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30006 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30006 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30007 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30008 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 01U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 50V 0, 10U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITOR CH 15V 0, 11U 1  C30009 EQUXIHITOSZEN C. CAPACITO	C4382	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	C7				-	
C4501.02 ECUX1C104ZFV C. CAPACITOR CH 18V 0.11 2	C4384, 85	ECUX1C393KBV	C CAPACITOR CH 16V 0 039U	2					-	
C4508 ECUXICIO4ZFV C. CAPACITOR CHB. 3V 10U 3   C7917 ECUMINIO3ZFN C. CAPACITOR CHB. 3V 10U 1   C7921 ECUXICIO4ZFV C. CAPACITOR CHB. 8V 0. 1U 1   C7921 ECUXICIOAZFN C. CAPACITOR CHB. 8V 0. 1U 1   C7921 ECUXICIOAZFN C. CAPACITOR CHB. 8V 0. 1U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 1U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 1U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7921 ECUXINIOAZFN C. CAPACITOR CHB. 8V 0. 01U 1   C7922 ECUXI				_					-	<del></del>
C4508 ECUXIGIO4ZEV C. CAPACITOR CH 16V 0.1U 1  C4515 ECUXIGIO4ZEV C. CAPACITOR CH 16V 0.1U 1  C4516 ECUXIGIO4ZEV C. CAPACITOR CH 16V 0.1U 1  C4516 ECUXIGIO4ZEV C. CAPACITOR CH 50V 0.01U 1  C4703 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4704 ECUMINIO4ZEN C. CAPACITOR CH 50V 0.01U 1  C4705 ECEAICKA100 E. CAPACITOR CH 50V 0.01U 1  C4707 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4707 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4708 ECEAICKA100 E. CAPACITOR CH 50V 0.01U 1  C4709 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4709 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4709 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.01U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH 50V 0.00U 1  C4700 ECUMINIO3ZEN C. CAPACITOR CH				-					1	
C4515 ECUXICIO4ZEV C. CAPACITOR CH 16V 0. 1U 1  C4703 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C4704 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30001 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30002 ECVINGOZED E. CAPACITOR CH 50V 0. 01U 1  C4705, 06 ECEATICKA100 E. CAPACITOR CH 50V 0. 01U 1  C4705, 06 ECEATICKA100 E. CAPACITOR CH 50V 0. 01U 1  C4707 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C4708 ECEATICKA100 E. CAPACITOR CH 50V 0. 01U 1  C4709 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30002 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30003 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30004 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30005 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30006 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30006 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30007 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30007 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30007 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30008 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 100P 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 10P 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 10P 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 10P 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 1U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 1U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 1U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 1U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 1U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO3ZEN C. CAPACITOR CH 50V 0. 01U 1  C30009 ECUMINIO				$\overline{}$	C7	7917	ECUM1H103ZFN	C. CAPACITOR OH 50V 0. 01U	1	
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DOMAIN   COUNTY   C		·		1	D8001	-05	1SS355	DIODE	5	į l
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DECOMES   SEMPRICED   DECOMETING   194   100   1		ECUM1 C334ZFN	C. GAPACITOR CH 16V 0. 33U	_1	D6201		MA723	30010	1	
COMPAND   COMPAND   COMPAND NO   COMPAND N	C30044		C. GAPACITOR CH 50V 0.01U	1	D6202		MA720	DIODE	1	
1997   1997		EEVHB1C100	E. CAPACITOR 16V 10U	1	D6203	-05	MA723	DICOE	3	
	C30046	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	D6401		MA720	DIODE	1	
	G30047	EEVHP1A100	E. CAPACITOR 10V 10U	1	D6701		MA165	DIODE	1	
	C30048	EEVHB0J220	E. GAPACITOR 6. 3V 22U	1	D6719		MA720	DIODE	1	
	030049	ECUM1 C335ZFM	C. CAPACITOR CH 16V 3.3U	1	D6720		MA165	DIODE	1	
GORDONS   GUARDITOR OF SOY 2009   1	C30050	EEVHBOJ101	E. CAPACITOR 6.3V 100U	1	D6721		210004	DIODE	1	
COURSIDE   COMPANDED NO   COMPANDED NO SOV 2009   1	C30051	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	06722		MA4062L	DIODE	1	
190905-9	030052	ECUM1H221JCN	C. CAPACITOR OH 50V 220P	1					-	
\$2000055   \$2004   \$100227   \$CAPACITOR OF \$50 V 0.010   1	C30053	ECUN1H331JCN	C. CAPACITOR CH 50V 330P	1					-	
200005   EDAY IN LOSZY   C. DAPACTER CH 507 0 0 0 10 1	030054			1					_	
200007	C30055			1					_	
D00009   EQNAMIN IOAZPR   C. DAPACTOR CH 50V 0.1U   1   D00001   M131K   D100E   1   D00001   M131K   D100E   1   D00009   EVAN STATE   D100E   1   D00009   EVAN STATE   D100E   1   D00009   EVAN STATE   D100E				1					<u></u>	
				1					_	
CORDINE   CONTROL   CAPACITION CHE   10   10   11   11   12   12   13   13   14   15   15   15   15   15   15   15				1		$\overline{}$			_	
CORDINATION   CARPACITION CHILD   CARPACITIO				<u>'</u>	03000	-	137240	DIVUE		<del> </del>
				<u>'</u>	El 240	$\vdash$	VI F1367	FILTED		<del> </del>
PRINCE   CONTINUE				_	7 (340)	-	VLF 1307	FICIER	-1	-
CORDINATION   CONTRICT NOT NOT NOT NOT NOT NOT NOT NOT NOT NO				-	ED220	-	V leans t	COMMENTOD (FEMALE)	_	
				_	FF320	-	VU33231	CONNECTOR (FEMALE)	1	ļ
GROOP   GENERAL TOTAL   GENERAL TOTAL   TENNIS				-	10000	-	101000450	10	_	
C-C	-			-		_				
GS0077				-		$\overline{}$				
G3009    GUMI   OLDER   CAPACITOR CH   19V   10   1   1   1   1   1   1   1   1				2					_	
C30000   CUMH   C42PK   C CAPACITOR CH 50V 0.1U   1   1   1   1   1   1   1   1   1				_					-	
C30001   ECHINOLOGIC   E CAPACITOR   6.3						_			_	
C30002  EQUIX C10 42FV   C. CAPACITOR CH 16V   O. 10   1   13001   TiP90EF   1C   1   1   1   1   1   1   1   1				_		_			1	
133003   EEVHBUJ2O   E. CAPACITOR R. 3V   22U   1   133002   UPG-8900100   10   1   1   1   1   1   1   1				_		$\overline{}$			_1	
C30084   EQUXI CTO AZEVY   C. CAPACITOR CH 18V   0.1U   1   1   1   1   1   1   1   1   1				_		$\overline{}$			_	<del> </del>
C3008   EUXI-10   C42FV   C. CAPACITOR CH 18V   0.10   1   1   1   1   1   1   1   1   1				-		-			1	
C3008    EQUILITIO CAPPOLICE CHI SOV   0.10   1   1   1   1   1   1   1   1   1				_	10300	3	MN67373	1C	_1	
C30088   EGUX 161042FV   C. GAPACITOR CH 16V   0.1U   1   1   1   1   1   1   1   1   1				_	1C300	1	M52387FP	IC	_1	
C30088   EGUNTHIOUZEN   C. CAPACITOR CH 50V   1000P   1   1   1   1   1   1   1   1   1				-	10300		BH7086KV	IC	1	
C30090   ECUMINI   AZER   C. CAPACITOR CH 50V   D. 10   1   1   1   1   1   1   1   1   1				1	103000	3	M52684AFP	IC	-1	
C30091   EQUINTRATOLORIC C.CAPACITOR CH 50V 27P   1				1	10300	7	TC7SH00FU	IC	1	
C30092   EGUX1H103ZFV   C. CAPACITOR CH 50V   0.01U   1				1	1 03000		TC7SH08FU	IC	-1	
D801   MA728   D10DE   1				_1	IC315	-54	TC7SHU04FU	10	4	
Decin   MA728	030092	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1	1C320		M65500FP	IC	1	
D2001   ISS355				_	10320	2	UPD42S4260B8	10	1	
D2003-05   ISS355   D10DE   3   C10205   TC7SH09FU   IC   1				1	103203	3	AN3741FAP	IC	1	
D2006-14   MA728					103204		AD9057BRS	IC	1	
D2501				-	103205		TC7SH08FU	10	1	
D2503				9	163401		NJU4053BV	IC	1	
D2505					103404		NJM22550	IC	1	
D2507					1 C3405		NJU4053BV	IC	1	
D2507   AKO4				1	103502		BU6254F	IC	1	
D3002   MA728   D10DE   1				1	103603		AN3581S			
D3003   MA151K	D3002	MA728	DIODE	1	103604	_				
D3201 MA142WA	D3003	MA151K	DIODE	1	103606		RN5RG22AA		_	
D3203   MA728   D100E   1	D3201	MA142WA	DIODE	1	IC3610					
D3502	03203	MA728	DIODE	1						
D3504   ISV101   D10DE   1   IC3802   MM1108XFF   IC   1   IC3801   C3801	03502, 03	MA151K	DIODE	2		-				
D3602   MA4033-H   D10DE   1	D3504	1SV101	DIODE			$\rightarrow$			_	
D3803 MA185   D10DE   1   1   1   1   1   1   2   2   2   3   3   4   4   3   3   4   4   4   4	D3602			-		$\overline{}$			_	
D3804   MA4033-H	D3603					_				<del> </del>
D3805         MA165         D10DE         1         £C4210         NUM2115V         IC         1           D3806         MA720         D10DE         1         £C4301         NUM79L05A         IC         1           D3807         MA151WK         D10DE         1         LC4302         NUM4558M         IC         1           D3608         O9 MA165         D10DE         2         LC4303         UPC78L05J         IC         1           D3610         MA151WK         D10DE         1         LC4304         OS NJM4558M         IC         2           D3611         MA4056         D10DE         1         LC4306         M62409FP         IC         1           D3612         13         MA165         D10DE         2         LC4307         NJM4558M         IC         1	D3604	MA4033-H	DIODE	1		-+				
D3606   MA720   D10DE   1						$\overline{}$				
D3607   MA151WK   D10DE   1   1   1   1   1   1   1   1   1						$\rightarrow$			_	
D3808, O9   MA185   D100E   2				-		-			_	
D3610 MA151WK DIODE				_					-	
D3611 MA4056 DIODE 1 1 1C4306 M62409FP IC 1 D3812, 13 MA165 DIODE 2 1C4307 NJM4558M IC 1				~~		$\rightarrow$				
D3812, 13 MA165 D10DE 2 1C4307 NJM4558M IC 1				-		-				
DOLLA COLLEGE TO DESCRIPTION OF THE PROPERTY O				$\overline{}$					-	
104300 M02409FY IC 1				$\rightarrow$					1	
				$\dashv$	104308		MUZ-108FF	10	1	
				$\dashv$		-				
		<u> </u>							_	

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Ref. No.		Part Name & Description		Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
	BU4052BCF	10	1		L3901	VLQ0599J680	COIL 68UH	_ 1	1
	NJM4558M	10	2		L4001	ELESE6R8KA	COIL 6. SUH	+	1
	NJM4565DD BU4052BCF	10	1		L4201	VLQ0426J6R8	COIL 6. BUH	-	1
I C4313, 14 I C4315	NJM4558M	10	2			ELJPA100KF	COIL 10UH	-	2
IC4315	HA17431PA	10	1			VLQ0599J100	COIL 10UH	+-	2
1C4501		10				ELESE331KA	COIL 330UH	+	1
	AK4520A-VF	10	1		L6704	VLQ0599J680	COIL 68UH	┿	1
					L6706	VLQ0599J680	COIL 68UH		1
	PST591D M31020VLEF	10	1		L30001	VLQ0163J100	COIL 10UH	-	1
106001	PST7029	IC IC	-			VLQ0319K100	COIL 10UH		3
1C6003	MC14013BF	10	1		L30005	VLQ0319K680	COIL 68UH	-	1
108003	TC7W74FU	10	- <u>-</u>	-	I PEO1 02	V/ DOTAE	CHID INDUCTOR	H	
106005	TC7S86FU	10	1		LB601, 02		CHIP INDUCTOR		2
106006	TC75W54FU	10	1		LB2001, 02 LB2004-06		CHIP INDUCTOR	-	2
108201	\$80743AL	IC	1			VLF1148A241	CHIP INDUCTOR	-	1
	BU4052BCF	IC	1		LB2501, 02		FILTER	-	
106203	M6M80041P	10	<u> </u>		LB3001, 02		CHIP INDUCTOR	-	2
	M38027V4EH	10	1			VLP0145	CHIP INDUCTOR	-	<del></del>
106401	M66010GP	10	1			VLP0145	CHIP INDUCTOR		
I C6403	M66010GP	10	1			VLP0145	CHIP INDUCTOR		· · · · · · · · · · · · · · · · · · ·
	NJM79L08UA	10	1	-		VLP0323A601	CHIP INDUCTOR	Ψ.	2
	NJM78L08UA	10	1		LB3501-03		CHIP INDUCTOR	—	3
	NJM2904M	10	1			VLP0323A601	CHIP INDUCTOR	₽-	3
		10	2		LB3509, 10		CHIP INDUCTOR	<del> </del>	Z.
	RN5RG30AA	10	1	<del> </del>		VLP0323A601	CHIP INDUCTOR	-	3
106707	TCHC453BAF	10	<u>'</u>			VLP0323A001	CHIP INDUCTOR	-	
I C6709-11	TC7W74F	10	3			VLP0145	CHIP INDUCTOR	-	·
I C6712	TC7W08F	10	1		LB6003, 04		CHIP INDUCTOR	2	
IC6713	TC7SH32F	10	1		LB6201, 02		FILTER	-	2
106714	TC7S08F	10	1		LB6701-06		FILTER	-	8
	M66006FP	10	1		250701-00	VEF 0003	FILIER	-	1
1030001		10	1		P1102	VJ\$1239T	CONNECTOR (FEMALE)	-	
1030002	TC90A23F	10	1			VJP1931T	CONNECTOR (MALE)	-	<del></del>
1030003	TA8761P	10	1			VJP1229T	CONNECTOR (MALE)		
IC30004		10	1			VJP3125B006	CONNECTOR (MALE) 8P	1	
	NJM2904M	10	1		P4001		CONNECTOR (FEMALE)	-	
		10	1		P6201	VJP1231T	CONNECTOR (MALE) 4P	-	<u></u>
1030007, 08		IC	2		P6401		CONNECTOR (FEMALE)	,	1
1030009	PST9129	IC	1		P6701		CONNECTOR (FEMALE)	1	
					P6703		CONNECTOR (FEMALE)	1	
<b>⚠</b> 1P3601	VSF0015A04	IC PROTECTOR	1		P6707	VJP1393T	CONNECTOR (MALE) 13P	1	
<b>⚠ 1P3602, 03</b>	VSF0015A06	IC PROTECTOR	2		P6707	VJS1239T	CONNECTOR (FEMALE)	1	·
<b>▲ 1P3604</b>	VSF0015A025	IC PROTECTOR	1		P7901	VJS3537A019G	CONNECTOR (FEMALE)	1	
<b>▲ 1P6701</b>	VSF0015A025	IC PROTECTOR	1		P7902		CONNECTOR (FEMALE)	1	
⚠ IP7901	VSF0015A04	IC PROTECTOR	1						
					PP3601-03	VJP3043G015W	CONNECTOR (MALE)	3	3
JK602	VJJ0242	REMOTE CONTROL JACK	1		PP3604	VJP3042G014W	CONNECTOR (MALE)	1	1
JK603	VJJ0577	JACK	1		PP3605	VJP3042G016W	CONNECTOR (MALE)	1	1
JK3900	VEJ1856	I/O JACK	1				CONNECTOR (MALE)	1	
						VJP3994	CONNECTOR (MALE)	1	
K2503, 04	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	2		PP3701		CONNECTOR (MALE)	1	
					PP3901		CONNECTOR (MALE)	-	1
L2001	ELJPA100KF	COIL 10UH	1		PP4001		CONNECTOR (MALE)	-	1
L2003		COIL 10UH	1		PP4002, 03		CONNECTOR (MALE)	-	2
	VLQ0614K331	COIL 330UH	4		PP6708		CONNECTOR (MALE)	1	
	ELJPA100KF	COIL 10UH	4					r	
L3006-08	ELJPA100KF	COIL 10UH	3		PS601	VJS3042F009W	CONNECTOR (FEMALE)	1	
L3009	VLQ0426J120	COIL 12UH	1				CONNECTOR (FEMALE)	1	ı
L3011	ELJPA100KF	COIL 10UH	1			VJS3994	CONNECTOR (FEMALE)	1	<del></del>
L3151, 52	ELJPA220KB	COIL 22UH	2			VJP3884B060	CONNECTOR (MALE)	1	<del></del>
L3201-07	ELJPA100KF	COIL 10UH	7				CONNECTOR (FEMALE)	2	
L3208	ELJPA220KB	COIL 22UH	1				CONNECTOR (FEMALE)	1	
L3209	ELJPA100KF	COIL 10UH	1		PS3901		CONNECTOR (FEMALE)	1	<del></del>
L3401	VLQ0319K330	COIL 33UH	1		PS3902		CONNECTOR (FEMALE) 14P	1	
L3501	VLQ0319K330	COIL 33UH	1		PS3903		CONNECTOR (FEMALE)	1	
L3503	VLQ0211J220	COIL 22UH	1		PS3904		CONNECTOR (FEMALE)	1	
L3504	VLQ0319K100	COIL 10UH	1		PS4301, 02	VJS3186B018	CONNECTOR (FEMALE)	2	2
L3505	VLQ0319K680	COIL 68UH	1		PS6701		CONNECTOR (FEMALE)	1	
L3604, 05	VLQ0599J680	COIL 68UH	2					H	<del>                                     </del>
L3606	VLQ0599J330	COIL 33UH	1		Q2501	2SB1073	TRANSISTOR	1	
L3701-03	ELJPA100KF	COIL 10UH	3			2SB1073	TRANSISTOR	2	
L3801, 02	VLQ0319K330	COIL 33UH	2		02509	2SB1073	TRANSISTOR	1	<del></del>
L3803	<del></del>	COIL 22UH	1			2SD1819	TRANSISTOR	1	<del></del>
L3804, 05	VLQ0319K330	COIL 33UH	2			2SB1218	TRANSISTOR	H	
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Ref. No.	Part No.	Part Name & Description	Pcs Remarks	Ref. No.	Don't No.	Dank Name E Danisht	<u></u>	]
Q3003	2SD1819A	TRANSISTOR	res Remarks	QR2003	Part No.	Part Name L Description TRANSISTOR-RESISTOR	rPc 1	
Q3004	2SD1819	TRANSISTOR	1	QR2503	UN2215	TRANSISTOR-RESISTOR	1	
93005	2SB1218	TRANSISTOR	1	QR2508	UN2115	TRANSISTOR-RESISTOR	+;	
03151, 52	2SB1218	TRANSISTOR	2	QR3151, 5		TRANSISTOR-RESISTOR	2	
Q3201	2SB1218A-R	TRANSISTOR	1	QR3603	MUN2113	TRANSISTOR-RESISTOR	1	
Q3202	2SC3931-C	TRANSISTOR	1	QR3604	MUN2213	TRANSISTOR-RESISTOR	1	
03203. 04	2SD1819A	TRANSISTOR	2	QR3607	MUN2213	TRANSISTOR-RESISTOR	1	<del></del>
Q3401	MSD601-R	TRANSISTOR	1	QR3609	MUN2213	TRANSISTOR-RESISTOR	1	
Q3402	MSB709-R	TRANSISTOR	1	QR3902	MUN2213	TRANSISTOR-RESISTOR	1	-
Q3403	MSD601-R	TRANSISTOR	1	QR3903	XN1213	TRANSISTOR-RESISTOR	1	
Q3404	2SB1218	TRANSISTOR	1	QR3904, 0		TRANSISTOR-RESISTOR	2	
Q3405	2SC3930	TRANSISTOR	1	QR4001	MUN2213	TRANSISTOR-RESISTOR	+ -	
Q3406	2SA1532	TRANSISTOR	1	QR4003	MUN2112	TRANSISTOR-RESISTOR	1	-
03407	MSD601-R	TRANS+STOR	1	QR4301	UN2119	TRANSISTOR-RESISTOR	1	
Q3408	2SD1819	TRANSISTOR	1	QR4302	MUN2212	TRANSISTOR-RESISTOR	1	
Q3501	MSC2295-B	TRANSISTOR	1	QR4303	MUN2213	TRANSISTOR-RESISTOR	+	
03502	2SA1022	TRANSISTOR	1	QR4701	MUN2213	TRANSISTOR-RESISTOR	1	
03503	2SD1819	TRANSISTOR	1	QR4702	MUN2212	TRANSISTOR-RESISTOR	<u>'</u>	
Q3504	MSD601-R	TRANSISTOR	1	QR6001	UN5213	TRANSISTOR-RESISTOR	1	
93505	2581218	TRANSISTOR	1	QR6201-04		TRANSISTOR-RESISTOR	4	
	MSB709-R	TRANSISTOR	2	QR6401-04		TRANSISTOR-RESISTOR	4	
Q3508	2SD1819	TRANSISTOR	1	GR6405	MJN2213	TRANSISTOR-RESISTOR	1	
Q3801-06		TRANSISTOR	6	QR6701	MUN2213	TRANSISTOR-RESISTOR	H	
Q3607	258956	TRANSISTOR	1	QR6704	DTC144EA	TRANSISTOR-RESISTOR	1	
Q3608	2SD1996	TRANSISTOR	1		MUN2213	TRANSISTOR-RESISTOR	8	
Q3610-12		TRANSISTOR	3	QR7902	MUN2213	TRANSISTOR-RESISTOR	1	
Q3613	2SD1991A	TRANSISTOR	1	QR7905	XN1211	TRANSISTOR-RESISTOR	1	
	2SD1996	TRANSISTOR	1	QR7906	MUN2213	TRANSISTOR-RESISTOR	1	
Q3801, O2	<del></del>	TRANSISTOR	2		MUN2211	TRANSISTOR-RESISTOR	2	
Q3803	2SD1819	TRANSISTOR	1	31.00001,2		NOTE TO TOTAL TO TOTAL	+-	
Q3806	MSD801-R	TRANSISTOR	1	R603, 04	FR-IRGEYG101	M. RESISTOR CH 1/10W 100	2	
03808	2SD1819	TRANSISTOR	1			M. RESISTOR CH 1/10W 1.2K	-	
Q3809	MSB709-R	TRANSISTOR	1	R2001		M. RESISTOR CH 1/18W 0	+	
Q3811	MSB709~R	TRANSISTOR	1			M. RESISTOR CH 1/18W 100K	2	
03901, 02	MSB709-R	TRANSISTOR	2			M. RESISTOR CH 1/16W 10K	-	
Q3903	XN6401	TRANSISTOR	\$			M. RESISTOR CH 1/16W 0	+	
Q3904	MSD601-R	TRANSISTOR	1	R2028		M. RESISTOR CH 1/16W 47K	+	
Q3905	XN6401	TRANSISTOR	1	R2029~31		M. RESISTOR CH 1/16W 0	-	
Q3906	MSD601-R	TRANSISTOR	1	R2032		M. RESISTOR CH 1/18W 47K	1	
Q3908	MSB709-R	TRANSISTOR	1	R2034		M. RESISTOR CH 1/16W 1M	1	
94001	2SK1 70BL	TRANSISTOR	1	R2035		M. RESISTOR CH 1/16W 22	1	
94002	MSB709-R	TRANSISTOR	1	R2036		M. RESISTOR CH 1/16W 47K	1	
94003	2SD1992A	TRANSISTOR	1	R2037	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
94004	MSD601-R	TRANSISTOR	1	R2038	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
Q4005	2SB1320A	TRANSISTOR	1	R2039	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
Q4301	2SD1468T93	TRANSISTOR	1	R2040	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
Q4302	MSB709-R	TRANSISTOR	1	R2042	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
Q4303-10		TRANSISTOR	8	R2045	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
Q4311, 12		TRANSISTOR-RESISTOR	2	R2046	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q4313-15		TRANSISTOR	3	R2047	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
Q6001	2SB970X	TRANSISTOR	1	R2048	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	_	
	MSD601-R	TRANSISTOR	4	R2049	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	
Q6401	MSD601-R	TRANSISTOR	1			M. RESISTOR CH 1/16W 0	3	
98701, 02		TRANSISTOR	2	R2055-60	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	6	
Q6703	2SD1992A	TRANSISTOR	1			M. RESISTOR CH 1/16W 100	2	
Q6704	2SB956	TRANSISTOR	1	R2063, 64	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	2	
Q6705	2SB948-Q	POWER TRANSISTOR	1	R2065	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
96706, 07		TRANSISTOR	2	R2086, 67	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
07901	2SB1321A	TRANSISTOR	1			M. RESISTOR CH 1/16W 0	2	
07902	2SD1996	TRANSISTOR	1	R2073		M. RESISTOR CH 1/16W 0	1	
07905	2SD1996	TRANSISTOR	1	R2074		M. RESISTOR CH 1/16W 1K	1	
Q7908	MSD601-R	TRANSISTOR	1	R2076		M. RESISTOR CH 1/16W 33K	1	
030001	MSD601-R	TRANSISTOR	1	R2077		M. RESISTOR CH 1/16W 22K	1	
030003	MSD601-R	TRANSISTOR	1	R2079		M. RESISTOR CH 1/16W 47K	1	
030004	MSB709-R	TRANSISTOR	1	R2080		M. RESISTOR CH 1/16W 1M	1	
	MSD601-R	TRANSISTOR	1	R2081		M. RESISTOR CH 1/16W 27K	1	
030008, 07	<del></del>	TRANSISTOR	2	R2082	ERJ3RBD183	M. RESISTOR CH 3W 18K	1	
030008	MSD601-R	TRANSISTOR	1	R2084	ERJ3R8D333	M. RESISTOR CH 3W 33K	1	
030009	MSB709-R	TRANSISTOR	1			M. RESISTOR CH 1/16W 8.2K	2	
	2SD1819	TRANSISTOR	1			M. RESISTOR CH 1/16W 100	2	
030011	2SB1218	TRANSISTOR	1	R2090		M. RESISTOR CH 1/16W 0	1	
Q30012	MSD601-R	TRANSISTOR TRANSISTOR	1	R2092		M. RESISTOR CH 1/16W 100	1	
	2001010		11	R2099-02	ERJ3GEYJ101	MERESISTOR CH 1/16W 100	4	
	2SD1819	TOTOTOTO.	<del></del>			M DED LOVER		
030014				R2104-06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
		TRANSISTOR-RESISTOR	2		ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 22K	1	
030014				R2104-06	ERJ3GEYJ101		_	

Mart   Mart				T		<del></del>	,		
Prince	Ref. No.	Part No.		cs Remarks	Ref. No.	Part No.	Part Name & Descript:	orPo	s Remarks
BANDEY NOW   RESISTED OF LYNE   10,   1   1   1   1   1   1   1   1   1				1	R3057, 58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 1	OK :	2
STATEMENT   C. MERCHAND   M.		ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	R3060, 61	ERJ3GEYJ223	ME RESISTOR CH 1/16W 2	2K 2	2
MARCHE   100   ASSESTITION   1/100   1/10	R2115	ERJ3GEYOROO	M. RESISTOR CH 1/16W D	1	R3064	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	
Mode   Mode	R2116	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R3065	ERJ3GEYG102	M RESISTOR CH 1/16W	ıK :	
MESSAGE   MARCHAND   MARCHAND OF 1	R2504	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R3066, 67	ERJ3GEY0R00		$\overline{}$	,
PRINCE   DESIGNATION   CRESISTRY OF 1704   100   1	R2505	ERDS2TJ681	C. RESISTOR 1/4W 680	1					
Moderation   Mod	R2513	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1					<del> </del>
MARCHANN   MARTING ON IV/OW   200   1	R2514	ERDS2TJ681	C. RESISTOR 1/4W 680	1				-	·
BORNELLY   200   10   10   10   10   10   10   1	R2523							$\overline{}$	
PRINCES   BANKEYON   RESISTOR ON LY/ON   100									<del></del>
Month   Mont								-	
PATENT   P								-+-	
MARCH   MARC									
March   Marc									
March   Marc							M. RESISTOR CH 1/16W	0 3	3
PASSAL   PALESTON ON 1/100   100   1   1   1   1   1   1   1						ERJ2GEOROO	M. RESISTOR CH 2W	0 1	
						ERJ3GEYG152	M. RESISTOR CH 1/18W 1.	5K 1	
				<del></del>	R3085	ERJ3GEYG102	M. RESISTOR CH 1/16W	IK 1	
READER VIS.   READER VIS.   RESISTOR ON LYDE   N.			M. RESISTOR CH 1/10W 470K	1	R3086	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1	
		ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	R3088	ERJ3GEYJ103	M. RESISTOR CH 1/16W 1	Ж 1	
Part	R2546	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	R3089, 90	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.	K 2	
READERFYLOUS   RESISTOR ON 1/109   100   1   100   1   100   1   100   1   1	R2547	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	R3091			-	
Package   Packager	R2548	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R3092			_	<del>                                     </del>
PROMESSION   PRO	R2549	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1				_	
BRANSEY 1938   BRANSEY 1938   BRANSEY 1970 CH 1/198   47K   1   1   1   1   1   1   1   1   1				1				-	
REASON   REASON   RESISTOR ON   1/09   1	R2551							-	
PASSA   BANGEYSTS   MESISTOR CH 1/10W   10K   1								_	+
PRINCE   P								_	<del></del>
PROSECTION   PROPERTY   PROPERT								-	
PART   PART				1				_	
RADIOLOGIC   REJERTIOLOGIC   RESISTOR ON 1/108   TOK   1				1				_	
ENJOY   ENJOY   100   RESISTOR ON 1/108   100   1   ENJOY   100				1			M. RESISTOR CH 1/16W 56	K 1	
ENJOY: FILE   PROJECTION				1	R3151-57	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 7	
2005   ENJORY/1000   RESISTOR ON 1/16W   0.0   1   1   1   1   1   1   1   1   1					R3158	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.	3K 1	
RADIO   RADIOLYVIND   RESISTOR ON   1/16W   10K   2   RESISTOR ON   1/16W   10K   2   RESISTOR ON   1/16W   20K   1   RESISTOR ON   1/16W   10K   1   RESIST		ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R3159-63	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 5	
SAUGH   SAUG				1	R3171-73	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.5	K 3	
RADIO   R. RESISTOR CH   1/16W   3K	R3005, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	R3174	ERJ3GEYJ105	M. RESISTOR CH 1/18W	M 1	
BR3006   ERJSBEYUNG2   M. RESISTOR OH   1/198   3K   1	R3007	ERJ3GEYG682	M. RESISTOR CH 1/16W 6. BK	1	R3175	ERJ3GEYJ221	M. RESISTOR CH 1/16W 2	0 1	
R3010   R308PL/305   M. RESISTOR CH 1/16W 390   1	R3008	ERJ3GEYJ302	M. RESISTOR CH 1/16W 3K	1	R3176			_	
R3011   R3019   R3019   M. RESISTOR CH   1/16W   20K   2	R3009	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5. BK	1	R3177			_	
R3011   12   ERJSQEY/1223   RESISTOR DO   1/16W   20   2	R3010	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	R3178			_	
RADIO	R3011, 12	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	R3179, 80			_	
R3014   ERJ3GEY/101   W. RESISTOR CH   1/16W   100   1	R3013	ERJ3GEYG332	M. RESISTOR CH 1/18W 3.3K	1					
R3018   ERJ3GEV_1101   RESISTOR CH 1/16W 150   1	R3014	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1				_	
R301				1				-	<del></del>
R3018   ELJ3GEYJ313   M. RESISTOR CH   1/16W   330   1				<del></del>				_	
R3019   ERJ38EYJ103   M. RESISTOR CH 1/16W 10K 1   R3209.07   ERJ38EYJ121   M. RESISTOR CH 1/16W 12D 2   R3209   ERJ38EYJ121   M. RESISTOR CH 1/16W 27D 1   R3209   ERJ38EYJ121   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 10D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 10D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 10D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R3201   ERJ38EYJ39E   M. RESISTOR CH 1/16W 56D 1   R								_	<del></del>
R3020   ERJ36EYJ271   M. RESISTOR CH 1/16W 270   R3203   ERJ36EY3622   M. RESISTOR CH 1/16W 5.2K 1   R3202   ERJ36EYJ3232   M. RESISTOR CH 1/16W 5.2K 1   R3202   ERJ36EYJ3232   M. RESISTOR CH 1/16W 5.2K 1   R3203   ERJ36EYJ3232   M. RESISTOR CH 1/16W 5.6K 1   R3203   ERJ36EYJ3232   M. RESISTOR CH 1/16W 5.6K 1   R3203   ERJ36EYJ3232   M. RESISTOR CH 1/16W 5.6K 1   R3212   ERJ36EYJ323   M. RESISTOR CH 1/16W 5.6K 1   R3212   ERJ36EYJ323   M. RESISTOR CH 1/16W 5.6K 1   R3214   ERJ36EYJ323   M. RESISTOR CH 1/16W 5.6K 1   R3215   ERJ36EYJ323   M. RESISTOR CH 1/16W 5.6K 1   R3216   ERJ36EYJ323   M. RESISTOR CH 1/16W 5.6K 1   R3216   ERJ36EYJ323   M. RESISTOR CH 1/16W 5.6K 1   R3216   ERJ36EYJ332   M. RESISTOR CH 1/16W 5.6K 1   R3216   ERJ36EYJ333   M. RESISTOR CH 1/16W 5.6K 1   R3216									
R3021   ERJ3GEY3322   M. RESISTOR ON 1/16W 3.3 M 1   R3209   ERJ3GEYJ552   M. RESISTOR ON 1/16W 5.6 M 1   R3210   ERJ3GEYJ551   M. RESISTOR CH 1/16W 5.6 M 1   R3210   ERJ3GEYJ551   M. RESISTOR CH 1/16W 5.6 M 1   R3211   ERJ3GEYJ551   M. RESISTOR CH 1/16W 6.8 M 1   R3212   ERJ3GEYJ551   M. RESISTOR CH 1/16W 6.8 M 1   R3212   ERJ3GEYJ551   M. RESISTOR CH 1/16W 6.8 M 1   R3212   ERJ3GEYJ551   M. RESISTOR CH 1/16W 6.8 M 1   R3212   ERJ3GEYJ650   M. RESISTOR CH 1/16W 6.8 M 1   R3212   ERJ3GEYJ650   M. RESISTOR CH 1/16W 6.8 M 1   R3213   ERJ3GEYJ652   M. RESISTOR CH 1/16W 6.8 M 1   R3214   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3214   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3214   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3215   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3215   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3215   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3215   ERJ3GEYJ670   M. RESISTOR CH 1/16W 6.8 M 1   R3215   ERJ3GEYJ163   M. RESISTOR CH 1/16W 18 M 1   R3215   ERJ3GEYJ163   M. RESISTOR CH 1/16W 18 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 18 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 12 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 12 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 12 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3216   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 20 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 15 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 20 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 20 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 20 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 20 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 30 M 1   R3226   ERJ3GEYJ163   M. RESISTOR CH 1/16W 30 M 1									<del></del>
R3022   ERJ3GEYJ121   M. RESISTOR CH 1/16W 120   1   R3210   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 560   1   R3211   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 560   1   R3212   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 68   1   R3213   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 68   1   R3214   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3215   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3215   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3217   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3216   ERJ3GEYJ36H   M. RESISTOR CH 1/16W 6. 8K   1   R3217   ERJ3GEYJ312   M. RESISTOR CH 1/16W 1   1   R3218   ERJ3GEYJ313   M. RESISTOR CH 1/16W 1   1   R3218   ERJ3GEYJ313   M. RESISTOR CH 1/16W 1   1   R3220   ERJ3GEYJ313   M. RESISTOR CH 1/16W 1   1   R3220   ERJ3GEYJ313   M. RESISTOR CH 1/16W 1   1   R3220   ERJ3GEYJ313   M. RESISTOR CH 1/16W 1   1   R3221   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. RESISTOR CH 1/16W 2   2   1   R3234   ERJ3GEYJ313   M. R								_	
R3023   R308FV3892   M. RESISTOR CH 1/16W   6. 8K   1								_	
R3024   ERJ3GEYG332   M. RESISTOR CH 1/16W 3.3K 1   R3212   ERJ3GEYGROO   M. RESISTOR CH 1/16W 0.0   1				<del>                                     </del>				0 1	
R3025   ERJ3GEY0ROO   M. RESISTOR CH 1/16W   O   1     R3213   ERJ3GEYGB02   M. RESISTOR CH 1/16W   6. 8K   1   R3026   ERJ3GEYJ273   M. RESISTOR CH 1/16W   27K   1   R3214   ERJ3GEYGB02   M. RESISTOR CH 1/16W   1K   1   R3217   ERJ3GEYGB02   M. RESISTOR CH 1/16W   1K   1   R3217   ERJ3GEYGB02   M. RESISTOR CH 1/16W   1K   1   R3218   ERJ3GEYGB02   M. RESISTOR CH 1/16W   1K   1   R3218   ERJ3GEYGB02   M. RESISTOR CH 1/16W   1K   1   R3218   ERJ3GEYJJ03   M. RESISTOR CH 1/16W   1K   1   R3219   ERJ3GEYJ302   M. RESISTOR CH 1/16W   3. 9K   1   R3033   ERJ3GEYJJ153   M. RESISTOR CH 1/16W   15K   1   R3220   ERJ3GEYJ302   M. RESISTOR CH 1/16W   5K   1   R3220   ERJ3GEYJ303   M. RESISTOR CH 1/16W   3. 9K   1   R3033   ERJ3GEYJ303   M. RESISTOR CH 1/16W   15K   1   R3221   ERJ3GEYJ304   M. RESISTOR CH 1/16W   3. 9K   1   R3035   ERJ3GEYJ302   M. RESISTOR CH 1/16W   3. 9K   1   R3035   ERJ3GEYJ302   M. RESISTOR CH 1/16W   3. 9K   1   R3035   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3035   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3035   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3035   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3036   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3036   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3036   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3036   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3036   ERJ3GEYJ302   M. RESISTOR CH 1/16W   3. 9K   1   R3048   ERJ3GEYJ302   M. RESISTOR CH 1/16W   3. 9K   1   R3048   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3048   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3048   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3048   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3048   ERJ3GEYJ302   M. RESISTOR CH 1/16W   2. 2K   1   R3048   ERJ3GEYJ302   M. RESISTO								8 1	
R3026   RRJ3GEYJ273   M. RESISTOR CH 1/16W 27K 1   R3214   RRJ3GEYG102   M. RESISTOR CH 1/16W 1K 1   R3215   RRJ3GEYJ103   M. RESISTOR CH 1/16W 1K 1   R3215   RRJ3GEYJ103   M. RESISTOR CH 1/16W 1K 1   R3215   RRJ3GEYJ103   M. RESISTOR CH 1/16W 1K 1   R3216   RRJ3GEYJ103   M. RESISTOR CH 1/16W 1K 1   R3217   RRJ3GEYJ104   M. RESISTOR CH 1/16W 1CK 1   R3218   RRJ3GEYJ302   M. RESISTOR CH 1/16W 1CK 1   R3218   RRJ3GEYJ302   M. RESISTOR CH 1/16W 3. 9K 1   R3203   RRJ3GEYJ302   M. RESISTOR CH 1/16W 15K 1   R3218   RRJ3GEYJ302   M. RESISTOR CH 1/16W 3. 9K 1   R3203   RRJ3GEYJ302   M. RESISTOR CH 1/16W 15K 1   R3216   RRJ3GEYJ302   M. RESISTOR CH 1/16W 560K 1   R3032   RRJ3GEYJ153   M. RESISTOR CH 1/16W 12K 1   R3220   RRJ3GEYJ304   M. RESISTOR CH 1/16W 560K 1   R3034   RRJ3GEYJ302   M. RESISTOR CH 1/16W 560K 1   R3221   RRJ3GEYJ302   M. RESISTOR CH 1/16W 560K 1   R3034   RRJ3GEYJ302   M. RESISTOR CH 1/16W 2CK 1   R3222   RRJ3GEYJ304   M. RESISTOR CH 1/16W 20K 1   R3223   RRJ3GEYJ202   M. RESISTOR CH 1/16W 20K 1   R3224   RRJ3GEYJ304   M. RESISTOR CH 1/16W 20K 1   R3234   RRJ3GEYJ302   M. RESISTOR CH 1/16W 20K 1   R3223   RRJ3GEYJ302   M. RESISTOR CH 1/16W 3. 9K 1   R3234   RRJ3GEYJ302   M. RESISTOR CH 1/16W 3. 9K 1   R3235   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ304   M. RESISTOR CH 1/16W 3. 9K 1   R3236   RRJ3GEYJ30									
R3027   ERJ3GEYJU223   M. RESISTOR CH 1/16W 22K   1   R3215   ERJ3GEYJU22   M. RESISTOR CH 1/16W 100   1   R3030   ERJ3GEYJU33   M. RESISTOR CH 1/16W 12K   1   R3217   ERJ3GEYJU30   M. RESISTOR CH 1/16W 100   1   R3031   ERJ3GEYJU33   M. RESISTOR CH 1/16W 12K   1   R3218   ERJ3GEYJU32   M. RESISTOR CH 1/16W 3.9 K   1   R3219   ERJ3GEYJU33   M. RESISTOR CH 1/16W 3.9 K   1   R3220   ERJ3GEYJU33   M. RESISTOR CH 1/16W 12K   1   R3220   ERJ3GEYJU33   M. RESISTOR CH 1/16W 12K   1   R3220   ERJ3GEYJU33   M. RESISTOR CH 1/16W 12K   1   R3220   ERJ3GEYJU33   M. RESISTOR CH 1/16W 15K   1   R3220   ERJ3GEYJU33   M. RESISTOR CH 1/16W 560K   1   R3230   ERJ3GEYJU33   M. RESISTOR CH 1/16W 560K   1   R3221   ERJ3GEYJU33   M. RESISTOR CH 1/16W 500   1   R3222   ERJ3GEYJU33   M. RESISTOR CH 1/16W 500   1   R3223   ERJ3GEYJU33   M. RESISTOR CH 1/16W 500   1   R3224   ERJ3GEYJU33   M. RESISTOR CH 1/16W 220   1   R3233   ERJ3GEYJU23   M. RESISTOR CH 1/16W 500   1   R3224   ERJ3GEYJU33   M. RESISTOR CH 1/16W 500   1   R3225   ERJ3GEYJU33   M. RESISTOR CH 1/16W 10K   1   R3225   ERJ3GEYJU33   M. RESISTOR CH 1/16W 10K   1   R3225   ERJ3GEYJU33   M. RESISTOR CH 1/16W 10K   1   R3226   ERJ3GEYJU33   M. RESISTOR CH 1/16W 10K   1   R3227   ERJ3GEYJU33   M. RESISTOR CH 1/16W 10K   1   R3226   ERJ3GEYJU34   M. RESISTOR CH 1/16W 10K   1   R3227   ERJ3GEYJU35   M. RESISTOR CH 1/16W 10K   1   R3228   ERJ3GEYJU35   M. RESISTOR CH 1/16W 20K   1   R3228   ERJ3GEYJU35   M. RESISTOR CH 1/16W 20K   1   R3228   ERJ3GEYJU35   M. RESISTOR CH 1/16W 20K   1   R3229   ERJ3GEYJU35   M. RESISTOR CH 1/16W 20K   1   R3229   ERJ3GEYJU35   M. RESISTOR CH 1/16W 20K   1   R3230   ERJ3GEYJU32   M. RESISTOR CH 1/16W 20K   1   R3230   ERJ3GEYJU32   M. RESISTOR CH 1/16W 20K   1   R3230   ERJ3GEYJU32   M. RESISTOR CH 1/16W 20K   1   R3230   ERJ3GEYJU33   M. RESISTOR CH 1/16W 20K   1   R3230   ERJ3GEYJU33   M. RESISTOR CH 1/16W 30   1   R3230   ERJ3GEYJU30   M. RESISTOR CH 1/16W 30   1   R3230   ERJ3GEYJU30   M. RESISTOR CH 1/16W 30   1   R3230   ERJ3GEYJU30   M. R					R3213	ERJ3GEYG682	M. RESISTOR CH 1/16W 8.8	K 1	
R3028   ERJ3GEYJ183   M. RESISTOR CH 1/16W 18K 1   R3217   ERJ3GEYJ101   M. RESISTOR CH 1/16W 100 1				1	R3214	ERJ3GEYG102	M. RESISTOR CH 1/16W 1	K 1	
R3028   ERJ3GEYJ183   M. RESISTOR CH 1/16W 19K 1   R3218   ERJ3GEYJ101   M. RESISTOR CH 1/16W 100 1   R3218   ERJ3GEYJ322   M. RESISTOR CH 1/16W 3.9 K 1   R3219   ERJ3GEYJ323   M. RESISTOR CH 1/16W 15K 1   R3219   ERJ3GEYJ392   M. RESISTOR CH 1/16W 560K 1   R3203   ERJ3GEYJ393   M. RESISTOR CH 1/16W 15K 1   R3220   ERJ3GEYJ394   M. RESISTOR CH 1/16W 560K 1   R3203   ERJ3GEYJ394   M. RESISTOR CH 1/16W 560K 1   R3203   ERJ3GEYJ394   M. RESISTOR CH 1/16W 560K 1   R3203   ERJ3GEYJ394   M. RESISTOR CH 1/16W 580K 1   R3203   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3221   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3203   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3222   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3203   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3222   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3203   ERJ3GEYJ223   M. RESISTOR CH 1/16W 520K 1   R3223   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3223   ERJ3GEYJ395   M. RESISTOR CH 1/16W 580K 1   R3224   ERJ3GEYJ395   M. RESISTOR CH 1/16W 590K 1   R3225   ERJ3GEYJ395   M. RESISTOR CH 1/16W 590K 1   R3225   ERJ3GEYJ395   M. RESISTOR CH 1/16W 590K 1   R3226   ERJ3GEYJ395   M. RESISTOR CH 1/16W 590K 1   R3236   ERJ3GEYJ395				1	R3215	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2	K 1	
R3030   ERJ3GEYJ123   M. RESISTOR CH 1/16W 12K   1   R3218   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3031   ERJ3GEYJ133   M. RESISTOR CH 1/16W 12K   1   R3219   ERJ3GEYJ394   M. RESISTOR CH 1/16W 500K   1   R3220   ERJ3GEYJ153   M. RESISTOR CH 1/16W 15K   1   R3220   ERJ3GEYJ391   M. RESISTOR CH 1/16W 390   1   R3033   ERJ3GEYJ392   M. RESISTOR CH 1/16W 22K   1   R3222   ERJ3GEYJ221   M. RESISTOR CH 1/16W 22C   1   R3223   ERJ3GEYJ222   M. RESISTOR CH 1/16W 22C   1   R3223   ERJ3GEYJ223   M. RESISTOR CH 1/16W 22K   1   R3224   ERJ3GEYJ392   M. RESISTOR CH 1/16W 22C   1   R3224   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3225   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3225   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3226   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   1   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   3   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   3   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   3   R3236   ERJ3GEYJ392   M. RESISTOR CH 1/16W 3. 9K   3   R3236   ERJ3GEYJ105   M. RESISTOR CH 1/16W 3. 9K   3   R3236   ERJ3GEYJ105   M. RES				1	R3217				
R3031 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R3032 ERJ3GEYJ123 M. RESISTOR CH 1/16W 12K 1 R3033 ERJ3GEYJ123 M. RESISTOR CH 1/16W 15K 1 R3034 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R3035 ERJ3GEYJ153 M. RESISTOR CH 1/16W 8. 2K 1 R3036 ERJ3GEYJ223 M. RESISTOR CH 1/16W 8. 2K 1 R3037 ERJ3GEYJ223 M. RESISTOR CH 1/16W 8. 2K 1 R3038 PEJ3GEYJ223 M. RESISTOR CH 1/16W 8. 2K 1 R3037 ERJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1 R3038 PEJ3GEYJ223 M. RESISTOR CH 1/16W 8. 2K 1 R3037 ERJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1 R3038 PEJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1 R3039 PEJ3GEYJ224 M. RESISTOR CH 1/16W 22K 1 R3025 ERJ3GEYJ239 M. RESISTOR CH 1/16W 22K 1 R3026 ERJ3GEYJ239 M. RESISTOR CH 1/16W 22K 1 R3027 ERJ3GEYJ23 M. RESISTOR CH 1/16W 22K 1 R3028 ERJ3GEYJ23 M. RESISTOR CH 1/16W 22K 1 R3029 ERJ3GEYJ23 M. RESISTOR CH 1/16W 22K 1 R3040 ERJ3GEYJ10 M. RESISTOR CH 1/16W 1M 1 R3228 ERJ3GEYJ392 M. RESISTOR CH 1/16W 22K 1 R3044 ERJ3GEYJ10 M. RESISTOR CH 1/16W 22D 1 R3046 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3047 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3048 PEJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3049 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3230 ERJ3GEYJ224 M. RESISTOR CH 1/16W 3.0 K 1 R3231 ERJ3GEYJ221 M. RESISTOR CH 1/16W 3.0 K 1 R3232 ERJ3GEYJ331 M. RESISTOR CH 1/16W 3.0 K 1 R3233 ERJ3GEYJ221 M. RESISTOR CH 1/16W 3.0 K 1 R3235 ERJ3GEYJ221 M. RESISTOR CH 1/16W 3.0 K 1 R3236 ERJ3GEYJ221 M. RESISTOR CH 1/16W 47D 1 R3237 ERJ3GEYJ331 M. RESISTOR CH 1/16W 4.7 K 1 R3238 ERJ3GEYJ301 M. RESISTOR CH 1/16W 4.7 K 1 R3236 ERJ3GEYJ301 M. RESISTOR CH 1/16W 4.7 K 1 R3237 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3238 ERJ3GEYJ301 M. RESISTOR CH 1/16W 4.7 K 1 R3236 ERJ3GEYJ301 M. RESISTOR CH 1/16W 4.7 K 1 R3237 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3238 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3236 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3237 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3238 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3236 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3237 ERJ3GEYJ302 M. RESISTOR CH 1/16W 4.7 K 1 R3238 ERJ3GEYJ302 M. RESIS				1	R3218			-	<del> </del>
R3032 ERJ3GEYJ123 M. RESISTOR CH 1/16W 12K 1 R3033 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R3034 ERJ3GEYG822 M. RESISTOR CH 1/16W 8.2K 1 R3035 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22K 1 R3036 ERJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1 R3037 ERJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1 R3038 ERJ3GEYG822 M. RESISTOR CH 1/16W 22K 1 R3039 ERJ3GEYJ239 M. RESISTOR CH 1/16W 22K 1 R3030 ERJ3GEYJ239 M. RESISTOR CH 1/16W 22K 1 R3030 ERJ3GEYJ239 M. RESISTOR CH 1/16W 22K 1 R3030 ERJ3GEYJ239 M. RESISTOR CH 1/16W 22K 1 R3030 ERJ3GEYJ103 M. RESISTOR CH 1/16W 22K 1 R3030 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 2 R3042 ERJ3GEYJ105 M. RESISTOR CH 1/16W 100K 1 R3042 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R3043 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R3044 ERJ3GEYJ104 M. RESISTOR CH 1/16W 22D 1 R3046 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3047 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3048 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3049 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3040 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3041 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3042 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3043 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3044 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3045 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3046 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3047 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3048 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3049 ERJ3GEYJ221 M. RESISTOR CH 1/16W 22D 1 R3050 51 ERJ3GEYG471 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYG471 M. RESISTOR CH 1/16W 470 2 R3050 61 ERJ3GEYJ221 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M. RESISTOR CH 1/16W 470 1 R3050 61 ERJ3GEYJ200 M.	R3031	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	R3219			_	
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R3047 ERJ3GEYG471 M. RESISTOR CH 1/18W 470 1 R3233 ERJ3GEYJ313 M. RESISTOR CH 1/16W 330 1 R3048, 49 ERJ3GEYJ221 M. RESISTOR CH 1/16W 220 2 R3234 ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7 K 1 R3050, 51 ERJ3GEYG471 M. RESISTOR CH 1/16W 470 2 R3235-37 ERJ3GEYJ302 M. RESISTOR CH 1/16W 3.9 K 3 R3052 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3238 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R3253 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10 K 1 R3239 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10 K 1 R3254 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10 K 1 R3254 ERJ3GEYJ105 M. RESISTOR CH 1/16W 3.9 K 2 R3054 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 M 1 R3240, 41 ERJ3GEYJ302 M. RESISTOR CH 1/16W 3.9 K 2				<del></del>				_	
R3048, 49				· <del> </del>				K 1	
R3050. 51 ERJ3GEYG471 M. RESISTOR CH 1/16W 470 2 R3235-37 ERJ3GEYJ302 M. RESISTOR CH 1/16W 3.9 K 3 R3052 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3238 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R3053 ERJ3GEY0R00 M. RESISTOR CH 1/16W 0 1 R3239 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R3054 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 M 1 R3240. 41 ERJ3GEYJ103 M. RESISTOR CH 1/16W 3.9 K 2				<del>                                     </del>				0 1	
R3052 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3238 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R3053 ERJ3GEY0R00 M. RESISTOR CH 1/16W 0 1 R3239 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R3054 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3240. 41 ERJ3GEYJ109 M. RESISTOR CH 1/16W 3. 9K 2				<del></del>			M. RESISTOR CH 1/16W 4.7	K 1	
R3052 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3238 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R3053 ERJ3GEY0R00 M. RESISTOR CH 1/16W 0 1 R3239 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R3054 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 M 1 R3240. 41 ERJ3GEYJ309 M. RESISTOR CH 1/16W 3. 9K 2					R3235-37			К 3	
R3053 ERJ3GEY0R00 M. RESISTOR CH 1/16W 0 1 R3239 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R3240. 41 ERJ3GEYJ105 M. RESISTOR CH 1/16W 3. 9K 2				<del></del>	R3238	ERJ3GEYJ104			
R3054 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3240. 41 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3. 9K 2		ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R3239				
DOCT TO MODIVADOR IN PROJECT TO A CAME A CAM		ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	R3240, 41				
	R3055	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1					
								1	
								+	

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Ref. No.	Part No.	Part Name & Descri	ption	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc:	s Remarks
		M. RESISTOR CH 1/16W	10K	1		R3618		M. RESISTOR CH 1/10W 1.2K	1	Nomal RS
		M. RESISTOR CH 1/10W	0	1		R3619			<del>  ;</del>	
									<u> </u>	
		M. RESISTOR CH 1/16W	68K	_1		R3620	<del> </del>	M. RESISTOR CH 1/10W 560	<u> </u>	
R3250		M. RESISTOR CH 1/16W	47K	_1		R3621		M. RESISTOR CH 1/10W 1.3K	1	
		M. RESISTOR CH 1/16W	22K	_1		R3622		M. RESISTOR CH 1/10W 1K	1	
R3252	ERJ3RBD181	M. RESISTOR CH 3W	180	1		R3623	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R3253	ERJ3RBD301	M. RESISTOR CH 3W	300	1		R3624	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R3254	ERJ3R8D391	M. RESISTOR CH 3W	390	1		R3625	ERDS2TJ391	C. RESISTOR 1/4W 390	1	
R3255	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1		R3626	ERJ6RBD512	M. RESISTOR CH 1/10W 5.1K	1	
R3257	ERJ3GEYJ124	M. RESISTOR CH 1/16W	120K	1		R3627	EROS2TJ271	C. RESISTOR 1/4W 270	1	
R3258-62		M. RESISTOR CH 1/16W	0	5		R3628		M. RESISTOR CH 1/10W 2.7K	1	
R3263		M. RESISTOR CH 1/16W	ŧΚ	1		R3629, 30		M. RESISTOR CH 1/10W 5.1K	2	
	ERJ3GEYOROO	M. RESISTOR CH 1/16W	0	4		R3631, 32	ERDS2TJ181	C. RESISTOR 1/4W 180	2	
	ERJ3GEYJ561	M. RESISTOR CH 1/16W	580	-		R3634		M. RESISTOR CH 1/10W 220K	1	
	ERJ6GEYF561	M. RESISTOR OH 1/10W	560	1					1	
				+		R3635		M. RESISTOR CH 1/10W 47K	<u> </u>	<del></del>
		M. RESISTOR CH 1/10W	2. 2K			R3638		M. RESISTOR CH 1/10W 1K	1	
		M. RESISTOR CH 1/10W	1K	2		R3639		M. RESISTOR CH 1/10W 22K	1	
		M. RESISTOR CH 1/10W	33K	1		R3644	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
		M. RESISTOR CH 1/10W	22K	1		R3649	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R3408		M. RESISTOR CH 1/10W	2. 2K	1		R3650	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R3409, 10	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	2		R3651	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R3411	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	1		R3652	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R3412	ERJ3GEYJ223	M. RESISTOR CH 1/18W	22K	1		R3653	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R3413		M. RESISTOR CH 1/16W	33K	1		R3658, 59		M. RESISTOR CH 1/10W 10K	2	
		M. RESISTOR CH 1/16W	1. 2K	1		R3660		M. RESISTOR CH 1/10W 2.2K	1	
R3415		M. RESISTOR CH 1/16W	580	1		R3662		M. RESISTOR CH 1/10W 68K	H	
R3416		M. RESISTOR CH 1/16W	22K	1		R3663		M. RESISTOR CH 1/10W 330	1	
R3417	ERJ3GEYJ561	M. RESISTOR CH 1/16W	580	1		R3664		M. RESISTOR CH 1/10W 47K	+	
		M. RESISTOR CH 1/16W	1K	+					+	<del> </del>
			1. 2K	3		R3665		M. RESISTOR CH 1/10W 100	┞.	
		M. RESISTOR CH 1/10W		-		R3666		M. RESISTOR CH 1/10W 15K	1	
R3422		M. RESISTOR CH 1/10W	100	1		R3667		M. RESISTOR CH 1/10W 100K	1.1	-
R3423	-	M. RESISTOR CH 1/10W	1. 2K	1		R3668		M. RESISTOR CH 1/10W 10K	1	ļ
R3424		M. RESISTOR CH 1/10W	10K	1		R3669		M. RESISTOR CH 1/10W 100	1	
R3425		M. RESISTOR CH 1/8W	0	1		R3670	ERJ6GEYJ684	M. RESISTOR CH 1/10W 680K	1	
R3440		M. RESISTOR CH 1/10W	22K	1		R3671	ERJ6GEYG753	M. RESISTOR CH 1/10W 75	1	1
R3441	ERJ6GEYF333	M. RESISTOR CH 1/10W	33K	_1		R3672	ERJ6GEYG824	M. RESISTOR CH 1/10W 820K	1	
R3442	ERJ6GEYG102	M. RESISTOR CH 1/10W	1 K	1		R3701	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3443	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	1		R3702	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
R3444	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1		R3703	ERJ3GEYJ103	M. RESISTOR OH 1/18W 10K	1	
R3445	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1		R3708	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3501	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1		R3709	ERJ3RB0272	M. RESISTOR CH 3W 2.7K	1	
R3502	ERJ6GEYG221	M. RESISTOR CH 1/10W	220	1		R3710	ERJ3RB0332	M. RESISTOR CH 3W 3.3K	1	
R3503		M. RESISTOR CH 1/10W	270	1		R3711		M. RESISTOR CH 1/16W 390K	1	
R3504		M. RESISTOR CH 1/10W	2. 7K	1			ERJ3RED560	M. RESISTOR CH 3W 56	4	
R3505		M. RESISTOR CH 1/10W	1. 2K	1		R3719	ERJ3GEYJ391	M. RESISTOR OH 1/16W 390	1	
R3506		M. RESISTOR CH 1/16W	100	1		R3720	ERJ3GEYG472	M. RESISTOR OH 1/18W 4.7K	1	+
R3507		M. RESISTOR CH 1/10W	1. 2K	1		R3721-25	ERJ3GEYJ103		-	
		M. RESISTOR CH 1/16W	100	3		R3728-33		M. RESISTOR OH 1/16W 10K	5	<del></del>
							ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
		M. RESISTOR CH 1/10W	1. 2K	2		R3735		M. RESISTOR CH 1/16W 0	-	
R3514		M. RESISTOR CH 1/10W		$\overline{}$		R3736		M. RESISTOR CH 1/16W 10K	-	
R3516		M. RESISTOR CH 1/16W	1K	-		R3737		M. RESISTOR CH 1/16W 27	-	
R3517		M. RESISTOR CH 1/16W	330	-		R3738		M. RESISTOR CH 1/16W 0	-	
R3518		M. RESISTOR CH 1/16W	1K	-		R3739, 40		M. RESISTOR CH 1/16W 10K	2	
R3519		M. RESISTOR CH 1/16W	470	_		R3801		M. RESISTOR CH 1/10W 1K		
R3520		M. RESISTOR CH 1/10W	560	1		R3804		M. RESISTOR CH 1/16W 47K	1	
		M. RESISTOR CH 1/10W	3. 3K	2		R3806	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3526		M. RESISTOR CH 1/16W	1K	1		R3808	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3527	ERJ6GEYG474	M. RESISTOR CH 1/10W	470K	1		R3809	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3528	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2. 2K	1		R3810	ERJ6RBD104	M. RESISTOR CH 1/10W 100K	1	
R3530	ERJ6GEYG102	M RESISTOR CH 1/10W	1K	1		R3811		M. RESISTOR CH 1/16W 1K	1	
R3531		M. RESISTOR CH 1/16W		1		R3812		M. RESISTOR CH 1/16W B2K	i	
R3532		M. RESISTOR CH 1/16W		1	1	R3814		M. RESISTOR CH 1/10W 1K	l i	
R3533		M. RESISTOR CH 1/10W	10K	i		R3815		M. RESISTOR CH 1/10W 470	+	
R3534		M. RESISTOR CH 1/10W	330	<b>⊢</b> ∸		R3816			+:	<del></del>
R3535		M. RESISTOR CH 1/10W		-		R3816			1:	
R3601	ERJ6RBD512	M. RESISTOR CH 1/10W		1				M. RESISTOR CH 1/10W 3.3K	-	<del>                                     </del>
R3602				_		R3818		M. RESISTOR CH 1/16W 2.2K	1	<del>                                     </del>
		M. RESISTOR CH 1/10W	47K	1		R3819	1	M. RESISTOR CH 1/16W 330	_	
R3604		M. RESISTOR CH 1/10W	2. 2K	1		R3820		M. RESISTOR CH 1/16W 2.2K	1	
R3606		M. RESISTOR CH 1/10W	10K	1		R3821, 22		M. RESISTOR CH 1/10W 100	<del></del>	
R3607		M. RESISTOR CH 1/10W	47K	1		R3823		M. RESISTOR CH 1/10W 330K	1	
R3610	+	M. RESISTOR CH 1/10W	1. 2K	1		R3824		M. RESISTOR CH 1/10W 580	1	
	+	M. RESISTOR CH 1/10W	1K	-		R3825-27	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R3615	ERJ6GEYJ224	M. RESISTOR CH 1/10W	220K	1		R3828	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3616	ERJ6GEYG474	M. RESISTOR CH 1/10W	470K	1		R3831	ERJ6GEYF561	M. RESISTOR CH 1/10W 580	1	
R3617	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1		R3834	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
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Ref. No.	Part No.	Part Name & Descri	ption	Pcs	Remarks	Ref. No.	Part No.	Part Name	& Descr	intio	Pc	Remarks
R3837	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1		R4313	ERJ6GEYG183	M. RESISTOR			1	
R3901 02		M. RESISTOR CH 1/10W	75	2		R4314	ERJ6GEYG102	M. RESISTOR			l i	
			75	4							<u> </u>	
		M. RESISTOR CH 1/10W				R4315	ERJ6RBD123	M. RESISTOR		12K	_1	
		M. RESISTOR CH 1/10W	10K	2		R4316	ERJ6RBD103	M. RESISTOR		10K	1	
		M. RESISTOR CH 1/10W	10K	2		R4317	ERJ6RBD123	M. RESISTOR	R CH 1/10W	12K	1	
R3915, 16	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	2		R4318	ERJ6RED204	M. RESISTOR	CH 1/10W	200K	1	
R3917	ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	-1		R4319	ERJ6RBD104	M. RESISTOR	CH 1/10W	100K	1	
R3918	ERJ6GEYG103	M. RESISTOR CH 1/10W	-1 OK	1		R4320	ERJ6RBD103	M. RESISTOR	CH 1/10W	1 0K	1	
R3919	ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	1		R4321	ERJ6RBD104	M. RESISTOR	CH 1/10W	100K	1	
R3920-22		M. RESISTOR CH 1/10W	10K	3		R4322	ERJ6RED204	M. RESISTOR			1	
R3923		M. RESISTOR CH 1/10W	22K	1		R4323	ERJ6RBD273	M. RESISTOR			1	
R3924		M. RESISTOR CH 1/10W	100K	i		R4324	ERJ6RBD751			750	-	
		M. RESISTOR CH 1/10W	47K	2				M. RESISTOR			1	
				_		R4325	ERJ6RED204	M. RESISTOR			1	
		M. RESISTOR CH 1/10W	2. 2K	_1		R4326	ERJ6RBD112	M. RESISTOR	******	1.1K	1	
R3928	ERJ6RBD272	M. RESISTOR CH 1/10W	2. 7K	1		R4327	ERJ6GEYG101	M. RESISTOR	CH 1/10W	100	1	
R3929	ERJ6RBD162	M. RESISTOR CH 1/10W	1. 6K	1		R4328	ERJ6RED204	M RESISTOR	CH 1/10W	200K	1	
R3930	EPJ0GEYG223	M. RESISTOR CH 1/10W	22K	-1		R4329	ERJ6GEYG331	M. RESISTOR	CH 1/10W	330	1	
R3931	ERJ6GEYG104	M. RESISTOR CH 1/10W	100K	-1		R4330	ERJ6GEYG101	M. RESISTOR	CH 1/10W	100	1	
R3932	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K	1		R4331	ERJ6GEYG105	M. RESISTOR	CH 1/10W	1 M	1	
R3933	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1		R4332	ERJ6R8D223	M. RESISTOR		22K	1	
		M. RESISTOR CH 1/10W	4. 7K	1		R4333		M. RESISTOR		47K	1	
		M. RESISTOR CH 1/10W	10K	1		R4334					-	
		M. RESISTOR OH 1/10W	4. 7K	+				M. RESISTOR		1K	1	
				1		R4335	ERJ6RBD223	M. RESISTOR		22K	1	
		M. RESISTOR CH 1/10W	10K	_		R4336		M. RESISTOR		10K	1	
		M. RESISTOR CH 1/10W	47K	1		R4337	ERJ6RBD273	M. RESISTOR		27K	1	
R3944		M. RESISTOR CH 1/10W	10K	1		R4338	ERJ6GEYG122	M. RESISTOR	CH 1/10W	1. 2K	1	
R3945, 46		M. RESISTOR CH 1/10W	75	2		R4339	ERJ6RBD363	M. RESISTOR	CH 1/10W	36K	1	
R3948	ERJ6GEYG750	M. RESISTOR CH 1/10W	75	1		R4340	ERJ6R80103	M. RESISTOR	CH 1/10W	10K	1	
R3952	ERJ6GEYJ224	M. RESISTOR CH 1/10W	220K	1		R4342	ERJ6RBD683	M. RESISTOR		68K	1	
R3955	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1		R4343	ERJ6RBD223	M. RESISTOR		22K	1	
R4004		M. RESISTOR CH 1/10W	15K	1		R4344	ERJ6RBD683	M. RESISTOR		88K	1	
		M. RESISTOR CH 1/10W	15K	1		R4345	ERJ6RBD223	M. RESISTOR		22K	1	
		M. RESISTOR CH 1/10W	33K	6		R4347					-	
		M. RESISTOR CH 1/10W	22K	2				M. RESISTOR		10K	<u> </u>	
				_	———————————————————————————————————————		ERJ6GEYG681	M. RESISTOR		680	2	
R4017		M. RESISTOR CH 1/10W	4. 7K	1		R4350	ERJ3GEYJ124	M. RESISTOR			1	
		M. RESISTOR CH 1/10W	100K	2		R4351	ERJ6RBD392	M. RESISTOR		3, 9K	1	
R4020		M. RESISTOR CH 1/10W	1 OK	1		R4352	ERJ6RBD103	M. RESISTOR	CH 1/10W	1 OK	1	
	ERJ6GEYG222	M. RESISTOR CH 1/10W	2. 2K	1		R4353	ERJ6RBD392	M. RESISTOR	CH 1/10W	3. 9K	1	
R4022	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1		R4354, 55	ERJ6RBD223	M. RESISTOR	CH 1/10W	22K	2	
R4023	ERJ6GEYG105	M. RESISTOR CH 1/10W	114	1		R4356	ERJ6RBD103	M. RESISTOR	CH 1/10W	10K	1	
R4024	ERJ6RBD471	M. RESISTOR CH 1/10W	470	1		R4357	ERJ6RBD363	M. RESISTOR	CH 1/10W	38K	1	
R4025	ERJ6RBD102	M. RESISTOR CH 1/10W	1K	1		R4358		M. RESISTOR		1K	1	
R4026, 27		M. RESISTOR CH 1/10W	2K	2		R4359	ERJ6RBD103	M. RESISTOR		10K	1	
R4028		M. RESISTOR CH 1/10W	1K	1		R4360	ERJ6RBD363	M. RESISTOR		36K	1	
		M. RESISTOR CH 1/10W	200	1		R4361	ERDAS3G680	M. RESISTOR				
		M. RESISTOR CH 1/10W	33K	÷						68	1	
R4031		M. RESISTOR CH 1/10W	18K	+		R4362	ERJ6GEYG102	M. RESISTOR		1K	1	
				-		R4363	ERJ6GEYG103	M. RESISTOR		1 OK	1	
R4032		M. RESISTOR DH 1/10W	100K	-11		R4364	ERJ6RBD752	M. RESISTOR		7. 5K	. 1	
		M. RESISTOR CH 1/10W	1. 2K	3		R4365	ERDAS3G680	M. RESISTOR	3W	68	1	
		M. RESISTOR CH 1/10W					ERJ6GEYG103	M. RESISTOR	CH 1/10W	10K	1	
		M. RESISTOR CH 1/10W		1		R4367	ERJ6RBD103	M. RESISTOR	CH 1/10W	10K	1	
		M. RESISTOR CH 1/10W	4. 7K	1		R4368	ERJ6GEYG102	M. RESISTOR	CH 1/10W	1K	1	
R4041, 42	ERJ6GEYG273	M. RESISTOR CH 1/10W	27K	2		R4369		M. RESISTOR			-	
R4203, 04	ERJ3RBD103	M. RESISTOR CH 3W	10K	2		R4370	ERJ3GEYJ221				$\vdash$	
R4205, 06	ERJ3GEYOROO	M. RESISTOR CH 1/16W	0	2		R4371	ERJ6GEYG102					
		M. RESISTOR CH 3W	10K	4		R4372		M. RESISTOR			-	
		M. RESISTOR CH 3W	1 OK	2		R4373		M. RESISTOR			-	
		M. RESISTOR CH 1/16W	0	2	<del></del>  -	R4374		M. RESISTOR			-	
			10K	2							-!	
				-		R4375		M. RESISTOR		1K	_	
		M. RESISTOR CH 1/10W	4. 7K	4		R4376	ERJ6GEYG122				_1	
		M. RESISTOR CH 3W	1 OK	2		R4377	ERJ6RBD752	M. RESISTOR	CH 1/10W	7. 5K	1	
		M. RESISTOR CH 1/16W	10K	2	][	R4379	ERJ3GEYJ101	M. RESISTOR	CH 1/16W	100	1	
		M. RESISTOR CH 1/16W	0	2		R4380	ERJ3GEYG102	M. RESISTOR	CH 1/16W	1K	1	
R4229-32	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	4		R4381		M. RESISTOR			1	
R4233	ERJ3GEYOROO	M. RESISTOR CH 1/16W	0	1		R4382		MI RESISTOR		_	1	
R4301		M. RESISTOR CH 1/10W	10K	1		R4384	ERJ6GEYG102			1K	1	
R4302		M. RESISTOR CH 1/10W	390	큠		R4385	ERJ6GEYG101				1	
R4303		M. RESISTOR CH 1/10W	4. 7K	il		R4386		M. RESISTOR			-	
R4305		M. RESISTOR CH 1/10W	10K	H							1	
			18K	2			ERJ3GEYG472				1	
		M. RESISTOR CH 1/10W		$\overline{}$		R4388		M. RESISTOR		10K	1	
R4308		M. RESISTOR CH 1/10W	100	-1		R4389	ERJ3GEYG472				1	
R4309		M. RESISTOR CH 1/10W	18K	_1		R4390		M. RESISTOR			1	
R4310		M. RESISTOR CH 1/10W	100	1		R4391	ERJ3GEYJ223	M. RESISTOR	CH 1/16W	22K	1	
R4311		M. RESISTOR CH 1/10W	1K	· 1		R4392	ERJ6GEYG122	M. RESISTOR	CH 1/10W	1. 2K	1	
R4312	ERJ6GEYG101	M. RESISTOR CH 1/10W	100	_1		R4393	ERJ6GEYG103	M. RESISTOR	CH 1/10W	10K	1	
												***************************************
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				7		T	1	1	T
Ref. No.	Part No.	Part Name & Desci	ription	cs Remarks	Ref. No.	Part No.	Part Name & Description	rPc:	s Remarks
R4394	ERJ3GEYJ561	M. RESISTOR CH 1/16W	560	1	R6201			1	
R4396		M. RESISTOR CH 1/100		1			M. RESISTOR CH 1/10W 47K	+	<del></del>
		M. RESISTOR CH 1/189		1		<del></del>		+-	
				<del></del>	R6205-08	+	M. RESISTOR CH 1/10W 3.3K		<u> </u>
	<del></del>	M. RESISTOR CH 1/16V		1	R6209-11	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	3	
R4401-03	ERJ3GEYJ562	M. RESISTOR CH 1/16N	5. ek	3	R6212	ERJ6GEYG103	M RESISTOR CH 1/10W 10K	[ ] 1	
R4405-07	ERJ3GEYJ562	M. RESISTOR CH 1/169	5. 6K	3	R6213	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4701	ERJ6GEYG122	M. RESISTOR CH 1/109	f 1.2K	1	R6214	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4702		M. RESISTOR CH 1/108		1	R6215		M. RESISTOR CH 1/10W 2.2K	+	
								+-	<del></del>
		M. RESISTOR CH 1/109		11	R6218	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	+	
R4714	ERJ6GEYF473	M. RESISTOR CH 1/10	47K	1	R6219	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4716	ERJ6GEYF473	M. RESISTOR CH 1/100	47K	1	R6220	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4717	ERJ6GEYG560	M. RESISTOR CH 1/10	56	1	R6221	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4719	ERJ8GEYF333	M. RESISTOR CH 1/10	33K	1	R6222	-	M. RESISTOR CH 1/10W 2.2K	-	
R4720		M. RESISTOR CH 1/10M							
						<del></del>	M. RESISTOR CH 1/10W 10K	+	-
	-	M. RESISTOR CH 1/10		4	R6225, 26	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	
R4725		M. RESISTOR CH 1/109		1	R6227	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	1
R4901-04	ERJ6GEYG681	M. RESISTOR CH 1/109	680	4	R6228	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R6001	ERJ3GEY0R00	M. RESISTOR CH 1/16V	0	1	R6244	ERJ6GEYF472	M. RESISTOR CH 1/10W 4. 7K	1	
R6003		M. RESISTOR CH 1/16W		1	R6245		M. RESISTOR CH 1/10W 1.5K	-	
				· · · · · · · · · · · · · · · · · · ·				+	
R6006		M. RESISTOR CH 1/169		1	R6247		M. RESISTOR CH 1/10W 10K	-	
R6008	ERJ3GEYJ151	M. RESISTOR CH 1/16V	150	1	R6401-04	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	4	,
R6009	ERJ3GEYJ103	M. RESISTOR CH 1/169	1 0K	1	R6405	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	
R6010	ERJ3GEYJ560	M. RESISTOR CH 1/169	56	1	R6406		M. RESISTOR CH 1/10W 2.2K	+	
R6011		M. RESISTOR CH 1/169		1				-	<u> </u>
				1				+	
R6012		M. RESISTOR CH 1/16V		1			M. RESISTOR CH 1/10W 1K	+	
R6013		M. RESISTOR CH 1/169		1	R6417	ERJ6GEY6122	M. RESISTOR CH 1/10W 1.2K	1	
R6014		M. RESISTOR CH 1/169		1	R6418	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R6015	ERJ3GEYJ220	M. RESISTOR CH 1/189	22	1	R6419, 20	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
		M. RESISTOR CH 1/169		3	R6421		M. RESISTOR OH 1/10W 10K	+	
		M. RESISTOR CH 1/169		5	R6422			-	
R6024				3			M. RESISTOR CH 1/10W 22K	+-	
		M. RESISTOR CH 1/16V			R6423		M. RESISTOR CH 1/10W 10K	-	
		M. RESISTOR CH 1/169		4	R6424, 25	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	
R6029	ERJ3GEYJ392	M. RESISTOR CH 1/169	3.9K	1	R6426	ERJ6GEYG103	M. RESISTOR OH 1/10W 10K	1	
R6030	ERJ3GEY0R00	M. RESISTOR CH 1/169	0	1	R6427, 28	ERJ8GEYG222	M. RESISTOR OH 1/10W 2.2K	2	
R6032-35	ERJ3@EYOROO	M. RESISTOR CH-1/169	0	4			M. RESISTOR CH 1/10W 10K	+	
		M. RESISTOR CH 1/169		3				+	
		M. RESISTOR CH 1/169					M. RESISTOR CH 1/10W 100	+	
				3	R6438		M. RESISTOR CH 1/10W 1.2K	+	
R6042		M. RESISTOR CH 1/169		1	R6439-45		M. RESISTOR OH 1/10W 1K	7	
R6043	ERJ3GEYJ333	M. RESISTOR CH 1/169	4 : 33K	1	R6446	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6044	ERJ3GEYG332	M. RESISTOR CH 1/169	3.3K	1	R6447-53	ERJ66EYF473	M. RESISTOR CH 1/10W 47K	7	,
R6045	ERJ3GEYJ333	M. RESISTOR CH 1/189	33K	1	R6454	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6046	ERJ3GEYJ473	M. RESISTOR CH 1/169	47K	1	R6455		M. RESISTOR CH 1/10W 2.7K	+	
R6047		M. RESISTOR CH 1/169		1			M. RESISTOR CH 1/10W 10K	+	
		M. RESISTOR CH 1/169		2				+	
					R6459-72		M. RESISTOR CH 1/10W 100	+-	
R6050		M. RESISTOR CH 1/16Y		1	R6701	ERJ6RBD561	M. RESISTOR CH 1/10W 560	1	
R6051	ERJ3GEYJ151	M. RESISTOR CH 1/169	150	1	R6702	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1	
R6052	ERJ3GEYJ473	M. RESISTOR CH 1/169	47K	1	R6703	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	
R6053	ERJ3GEYOROO	M. RESISTOR CH 1/169	0 1	1	R6704	ERJ6RB0561	M. RESISTOR CH 1/10W 560	1	
R6054, 55	ERJ3GEYG103	M. RESISTOR CH 1/169	T TOK	2	R6705		M. RESISTOR OH 1/10W 2.2K	-	
		M. RESISTOR CH 1/169		2	R6706			+	<del> </del>
							M. RESISTOR CH 1/10W 10K	+	
		M. RESISTOR CH 1/169		5			M. RESISTOR CH 1/10W 22K	_	
	<del></del>	M. RESISTOR CH 1/169		3	R6713	ERJ6GEYF124	M. RESISTOR CH 1/10W 120K	1	
R6066	ERJ3GEYJ222	M. RESISTOR CH 1/169	2.2K	1	R6714, 15	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	2	
R6067	ERJ3GEYG102	M. RESISTOR CH 1/169	1 1K	1			M. RESISTOR CH 1/10W 10K	-	<del>                                     </del>
		M. RESISTOR CH 1/169		2	R6718		M. RESISTOR CH 1/10W 2. 7K	+	
R6070		M. RESISTOR CH 1/169		1				+	
-	<del></del>				R6719		M. RESISTOR CH 1/10W 10K	+	
R6071		M. RESISTOR CH 1/168		1	R6720	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	1	
R6072	ERJ3GEYOROO	M. RESISTOR DH 1/169	0	1	R6721	ERDS2TJ222	C. RESISTOR 1/4W 2.2K	1	
R6073	ERJ3GEYJ473	M. RESISTOR CH 1/16V	47K	1	R6722, 23		M. RESISTOR CH 1/10W 10K	+	
R6074-79		M. RESISTOR CH 1/16V		6	R6724		M. RESISTOR CH 1/10W 1K	+	
R6080		M. RESISTOR CH 1/169		1				-	
					R6725		M. RESISTOR CH 1/10W 150		
	<del></del>	M. RESISTOR CH 1/169		11	R6726		M. RESISTOR CH 1/10W 3.3K	1	
R6092		M. RESISTOR CH 1/169		1	R6727-29	ERDS2TJ821	C. RESISTOR 1/4W 820	3	
R6093	ERJ3GEYJ560	M. RESISTOR CH 1/169	56	1	R6730	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6094	ERJ3GEYOROO	M. RESISTOR CH 1/169	0	1	R6731		M. RESISTOR CH 1/10W 2.2K		<del></del>
R6095		M. RESISTOR CH 1/16V		1			M. RESISTOR CH 1/10W 56K	+	
R6096		M. RESISTOR CH 1/169		1	R6734			-	<del> </del>
R6097		M. RESISTOR CH 1/169		1	-			+	<del> </del>
					R6735		C. RESISTOR 1/4W 820	+-	<del> </del>
R6098	<del> </del>	M. RESISTOR CH 1/169		1	R6736	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 150	1	
R6099		M. RESISTOR CH 1/188		1	R6737	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6100	ERJ3GEYG102	M. RESISTOR CH 1/169	1 K	1	R6737	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1	
R6101	ERJ3GEYJ223	M. RESISTOR DH 1/169	22K	1	R6738		M. RESISTOR CH 1/10W 10K	+-	
R6102, 03	ERJ3GEYG332	M. RESISTOR CH 1/169	f 3.3K	2	R7901		M. RESISTOR CH 1/10W 12K	+	· · · · · · · · · · · · · · · · · · ·
R6105		M. RESISTOR CH 1/18		1	R7904			+-	<del> </del>
R6108		M. RESISTOR CH 1/16		1		<del></del>	M. RESISTOR CH 1/10W 10K	+	
1,0100	LR030E13133	m. RESISTOR OR 1/161	1 15K		R7906	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
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								-	

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Ref. No.	Part No.	Part Name & Desc	rintio	Pr.	Remarks Ref. No.	Part No.	Dant Name & Daniel at	<b>L</b> .	
R7912		M. RESISTOR CH 1/10		-			Part Name & Description	+	
R7916	<del> </del>			+	R30082, B3		M. RESISTOR CH 1/10W 470	2	2
		M. RESISTOR CH 1/10		1	R30084	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	1
R7923, 24	ERJ8GEYG152	M. RESISTOR CH 1/10	1.5K	2	R30086	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R7935	ERJ6GEYG103	M. RESISTOR CH 1/109	V 10K	1				✝	
R7937	ERDS2TJ151	C. RESISTOR 1/41	V 150	1,	T30001	VLQ0825	COIL	٠.	
	<del> </del>	M. RESISTOR DH 1/10		+;	130001	VLQU023	COIL	1	
				-					
		C. RESISTOR 1/49		1	TP3021	VJR0098	TEST POINT	1	
	ERJ6GEYG332	M. RESISTOR CH 1/10%	7 3.3K	3	TP3801, 02	VJR0098	TEST POINT	2	2
R7958	ERJ6GEYG223	M. RESISTOR CH 1/10	7 22K	1	TP8021	VJR0098	TEST POINT	1	
R30001	ERJBGEYG102	M. RESISTOR CH 1/109	Y 1K	1	TP30005, 0	3 VJR0098	TEST POINT	2	
R30002-04	ERJ3GEYJ470	M. RESISTOR CH 1/169	47	3				<del>                                     </del>	
		M. RESISTOR CH 1/10%		1	VC3802	ECRJA020E11	TRIMMER 20P	١-,	
		M. RESISTOR CH 1/109		+	V63602	LONOAUZULTT	TRIMMER 20P	1	
				+-		ļ		_	
		M. RESISTOR CH 1/169		2	VR30001, 0	EVMEGSA00B14	V. RESISTOR 10K	2	2
		M. RESISTOR CH 1/108		1	VR30004	EVMÉGSA00B14	V. RESISTOR 10K	1	
R30010, 11	ERJ3GEYJ273	M. RESISTOR CH 1/169	27K	2					
R30012	ERJ6GEYG101	M. RESISTOR CH 1/10V	1 100	1	X2001	VSX0847	CRYSTAL OSCILLATOR	1	
R30013	ERJ3GEYJ101	M. RESISTOR CH 1/169	1 100	1	X2002	VSX0872		-	
				+			CRYSTAL OSCILLATOR	1	
		M. RESISTOR CH 1/169		+	X3003	VSX0846	CRYSTAL OSCILLATOR	1	
		M. RESISTOR CH 1/169		+	X3004	VSX0932	CRYSTAL OSCILLATOR	1	
		M. RESISTOR CH 1/109		1	X3151	VSX0848	CRYSTAL OSCILLATOR	1	
R30017	ERJ8GEYG303	M. RESISTOR CH 1/109	30K	1	X3152	VSX1010	CRYSTAL OSCILLATOR	1	<del> </del>
R30018	ERJ6GEYG101	M. RESISTOR CH 1/100	1 100	1	X3501	VSX0365	CRYSTAL OSCILLATOR	1	<del></del>
		M. RESISTOR CH 1/169		+				_	
		M. RESISTOR CH 1/10W		-	X3701	VSX0846	CRYSTAL OSCILLATOR	1	
				+	X3801	VSX0365	CRYSTAL OSCILLATOR	1	
		M. RESISTOR CH 1/109		+	X4701	VSX0934	CRYSTAL OSCILLATOR	1	
R30023, 24	ERJ6GEYJ471	M. RESISTOR CH 1/10W	1 470	2	X6001	VSX0847	CRYSTAL OSCILLATOR	1	
R30025	ERJ3GEYG102	M. RESISTOR CH 1/16W	1 1K	1	X6201	EF0EC7374A4	CRYSTAL OSCILLATOR	1	<del></del>
R30026, 27	ERJ6GEYG391	M. RESISTOR CH 1/109	390	2	X30001	VSX0365	CRYSTAL OSCILLATOR	1	
		M. RESISTOR CH 1/16W	~~~	-		100000	ONTSTAL OSCILLATOR	<u> </u>	
		M. RESISTOR CH 1/10W		-	700704			<u> </u>	
				1	Z82501	VJF0442	MINI CLAMPER	1	
		M. RESISTOR CH 1/16W		1	ZB4001, 02	VMP4985	CARD CORNER HOLDER	2	
		M. RESISTOR CH 1/16W		1	ZB6701, 02	VMP4985	CARD CORNER HOLDER	2	
R3O032	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1					
R30033	ERJ3GEYJ122	M. RESISTOR CH 1/16%	1.2K	1			MISCELLANEOUS	_	
R30034	ERJ3GEYG102	M. RESISTOR CH 1/16W	1 1K	1					
R30035	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1		VEE0099	CABLE	-	P1102-P870
R3O038	ERJ6RBD392	M. RESISTOR CH 1/10W		1		VWJ1195	FLAT CARD CABLE	-	
R30039		M. RESISTOR CH 1/10W		-				$\overline{}$	P7502-P790
		M. RESISTOR CH 1/10W		_		VWJ1196	FLAT CARD CABLE	-	P7501-P790
				1		VWJ1197	FLAT CARD CABLE	- 1	PS4851-P64
					11			~~~	
2000010		M. RESISTOR CH 1/10W		-		VWJ1198	FLAT CARD CABLE	~~~	P4801-P400
	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1		VWJ1198 VSC4689	SHIELD CASE (B)	~~~	
R30043	ERJ3GEYG102 ERJ6GEYG223	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W	1 K	1				1	
R30043 R30044	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1 1K 22K 470	1		VSC4689	SHIELD CASE (B)	1	
R30043 R30044 R30048	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W	1 1K 22K 470	1 1		VSC4689 VSC4690	SHIELD CASE (B) SHIELD CASE (T)	2 2	
R30043 R30044 R30048	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1 1K 22K 470 4.7K	1 1		VSC4689 VSC4690 XTV3+6J	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET	1 2 2 6	
R30043 R30044 R30048 R30047	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ123	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	1 1K 22K 470 4.7K 1 12K	1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1	
R30043 R30044 R30048 R30047 R30048	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ103	M. RESISTOR CH 1/16M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M	1 1K 22K 1 470 1 4.7K 1 12K 1 10K	1 1 1		VSC4889 VSC4690 XTV3+6J VMZ2787	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET	1 2 2 6	
R30043 R30044 R30046 R30047 R30048 R30049	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG222	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/18M M. RESISTOR CH 1/18M M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K	1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1	
R30043 R30044 R30046 R30047 R30048 R30049	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG222 ERJ6GEYG182	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/18M M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K	1 1 1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1	
R30043 R30044 R30046 R30047 R30048 R30049 R30050 R30051	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG222 ERJ6GEYG182 ERJ3GEYG102	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/16M	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 1K	1 1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1	
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051	ERJ3GEYG102 ERJ6GEYG223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG222 ERJ6GEYG182 ERJ3GEYG102 ERJ6GEYG184	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 1.8K 1 18K	1 1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1	
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053	ERJ3GEYG102 ERJ6GEYJ223 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ103 ERJ3GEYJ103 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/18W M. RESISTOR CH 1/18W M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 18K 1 180K	1 1 1 1 1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1	
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054	ERJ3GEYG102 ERJ6GEYJ2471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ123 ERJ3GEYJ103 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 18K 1 180K 1 180K 1 1 180K	1 1 1 1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788 VJH1074	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET	1 2 2 6 1 1 1	
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053	ERJ3GEYG102 ERJ6GEYJ2471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ123 ERJ3GEYJ103 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/18W M. RESISTOR CH 1/18W M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 18K 1 180K 1 180K 1 1 180K	1 1 1 1 1 1 1 1 1 1 1 1 1		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788 VJH1074	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK	1 2 2 6 1 1 1	
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYJ471 ERJ3GEYJ472 ERJ3GEYJ103 ERJ3GEYJ103 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG17473	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 180K 1 180K 1 1K 1 2.7K 1 47K	11 11 11 11 11 11 11 11 11		VSC4689 VSC4690 XTV3+6J VMZ2787 VMZ2788 VJH1074	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK	1 2 2 6 1 1 1	
R30043 R30044 R30046 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30055	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYQ471 ERJ3GEYQ472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/19M M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 18K 1 180K 1 180K 1 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		VSC4889 VSC4690 XTV3+6J VMZ2787 VMZ2788 VJH1074 VEP05351A	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK HEAD AMP C. B. A.	1 2 2 6 1 1 1 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30050 R30051 R30052 R30052 R30053 R30054 R30055 R30055 R30055	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYQ471 ERJ3GEYQ472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 180K 1 180K 1 1K 1 2.7K 1 47K 1 3.9K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04	VSC4889 VSC4690 XTV3+6J VM22787 VM22788 VJH1074 VEP05351A ECUX1H103ZFV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK HEAD AMP C.B.A. C. CAPACITOR CH 50V 0.01U	1 2 2 6 1 1 1 1 1 1	(RTL)
R30043 R30044 R30045 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30055 R30055 R30056 R30057	ERJ3@EYG102 ERJ6@EYG223 ERJ6@EYJ471 ERJ3@EYJ472 ERJ3@EYJ103 ERJ6@EYJ103 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG473 ERJ6@EYG473 ERJ6@EYG473	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/10M M. RESIST	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 2.2K 1 1.8K 1 180K 1 180K 1 17 1 180K 1 17 1 180K 1 17 1 180K 1 180K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007	VSC4889 VSC4690 XTV3+6J VM22787 VM22788 VJH1074  VEP05351A  ECUX1H103ZFV ECUX1H103ZFV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  HEAD AMP C. B. A.  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U	1 2 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30050 R30051 R30052 R30053 R30054 R30055 R30055 R30055 R30056 R30057 R30058	ERJ3GEYG102 ERJ6GEYU471 ERJ3GEYG472 ERJ3GEYJ123 ERJ3GEYJ123 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYG102 ERJ3GEYF473 ERJ3GEYF473 ERJ3GEYF473	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/16M M. RESISTOR CH 1/10M M. RESIST	1 1K 1 22K 1 470 1 4.7K 1 12K 1 10K 1 12.2K 1 1.8K 1 180K 1 180K 1 180K 1 170K 1 47K 1 47K 1 150K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010	VSC4889  VSC4690  XTV3+6J  VM2787  VM2788  VJH1074  VEP05351A  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  HEAD AMP C. B. A.  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U	1 2 2 6 1 1 1 1 1 1 4 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30055 R30057 R30058 R30057 R30058 R30059 R30061	ERJ3GEYG102 ERJ6GEYJ471 ERJ3GEYG472 ERJ3GEYJ103 ERJ6GEYJ103 ERJ6GEYJ103 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYF473 ERJ6GEYF6102 ERJ6GEYF6102 ERJ6GEYF6102 ERJ6GEYF6103	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/18M M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESIST	1 1K 22K 470 4.7K 1 12K 1 10K 1 1.8K 1 18K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010 C5013	VSC4689  VSC4690  XTV3+6J  VM2787  VM2788  VJH1074  VEP05351A  EGUX1H103ZFV  EGUX1H103ZFV  EGUX1H103ZFV  EGUX1H15ZKBV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  HEAD AMP C. B. A.  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 1500P	1 2 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30056 R30057 R30058 R30059 R30061 R30062	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYQ471 ERJ3GEYU471 ERJ3GEYJ103 ERJ6GEYG122 ERJ6GEYG122 ERJ6GEYG182 ERJ6GEYG182 ERJ6GEYG184 ERJ6GEYG184 ERJ6GEYG195 ERJ6GEYG195 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473 ERJ6GEYF473	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/19M M. RESISTOR CH 1/10M M. RESIST	1 1K 22K 470 4.7K 1 12K 1 12K 1 12K 1 12K 1 18K 1 18K 1 18K 1 18OK 1 1 18OK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010	VSC4689  VSC4690  XTV3+6J  VM2787  VM2788  VJH1074  VEP05351A  EGUX1H103ZFV  EGUX1H103ZFV  EGUX1H103ZFV  EGUX1H15ZKBV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  HEAD AMP C. B. A.  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U	1 2 2 6 1 1 1 1 1 1 4 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30055 R30057 R30058 R30059 R30061 R30062 R30063	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYQ471 ERJ3GEYQ472 ERJ3GEYJ103 ERJ6GEYG222 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG103 ERJ6GEYG104 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG106 ERJ6GEYG106 ERJ6GEYG106 ERJ6GEYG106	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/18W M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESIST	1 1K 22K 470 4.7K 1.12K 1.10K 1.2K 1.10K 1.2K 1.10K 1.2K 1.10K 1.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010 C5013	VSC4689  VSC4690  XTV3+6J  VM22787  VM22788  VJH1074  VEP05351A  EGUX1H103ZFV EGUX1H103ZFV EGUX1H103ZFV EGUX1H103ZFV EGUX1H103ZFV EGUX1H103ZFV EGUX1H103ZFV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  HEAD AMP C. B. A.  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 1500P	1 2 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
R30043 R30044 R30048 R30049 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30058 R30057 R30058 R30059 R30061 R30062 R30062 R30063 R30068	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYQ471 ERJ3GEYQ472 ERJ3GEYJ103 ERJ6GEYG222 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG103 ERJ6GEYG104 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG106 ERJ6GEYG106 ERJ6GEYG106 ERJ6GEYG106	M. RESISTOR CH 1/18M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/10M M. RESISTOR CH 1/19M M. RESISTOR CH 1/10M M. RESIST	1 1K 22K 470 4.7K 1.12K 1.10K 1.2K 1.10K 1.2K 1.10K 1.2K 1.10K 1.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010 C5013 C5014	VSC4889  VSC4690  XTV3+6-J  VMZ2787  VMZ2788  VJH1074  VEP05351A  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV  ECUX1H103ZFV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 1500P T. CAPACITOR CH 50V 1000P T. CAPACITOR CH 50V 1000P	1 2 2 6 1 1 1 1 1 1 1 1 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30050 R30051 R30052 R30053 R30054 R30055 R30058 R30057 R30058 R30059 R30059 R30059 R30059 R30060 R30061 R30062 R30063 R30066	ERJ3GEYG102 ERJ6GEYQ223 ERJ6GEYQ471 ERJ3GEYQ472 ERJ3GEYJ123 ERJ3GEYJ103 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG103 ERJ6GEYG103 ERJ6GEYG103 ERJ6GEYG103 ERJ6GEYG103 ERJ6GEYG103 ERJ6GEYG103 ERJ6GEYG104 ERJ6GEYG104	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/18W M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESIST	1 1K 470 470 470 470 470 470 470 470 470 470	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010 C5013 C5014 C5015	VSC4889  VSC4690  XTV3+8-J  VM22787  VM22788  V	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 1.00U T. CAPACITOR CH 50V 1.00U T. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U	1 2 6 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
R30043 R30044 R30048 R30047 R30048 R30049 R30050 R30051 R30052 R30053 R30054 R30055 R30055 R30058 R30059 R30061 R30062 R30062 R30063 R30066	ERJ3@EYG102 ERJ6@EYQ223 ERJ6@EYQ471 ERJ3@EYJ472 ERJ3@EYJ103 ERJ6@EYG122 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG102 ERJ6@EYG104 ERJ6@EYG103 ERJ6@EYG104 ERJ6@EYG104 ERJ6@EYG104 ERJ6@EYG104 ERJ6@EYG104	M. RESISTOR CH 1/18W M. RESISTOR CH 1/10W M. RESIST	1 1K 470 4.7K 4.7K 4.7K 4.7K 4.7K 4.7K 4.7K 4.7K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C5001-04 C5007 C5010 C5013 C5014 C5015 C5016	VSC4889  VSC4690  XTV3+6J  VM22787  VM22788  VJH1074  VEP05351A  ECUX1H103ZFV ECUX1H103ZFV ECUX1H15ZFV	SHIELD CASE (B) SHIELD CASE (T) SCREW HEAT SINK SHEET HEAT SINK SHEET REAR JACK  C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 1500P C. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U	1 2 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Desc	ription	Pc	s Remarks
C5032	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C2735, 36	ECUX1C104ZFV	C. CAPACITOR CH 16V	/ 0.1U	2	2
C5033	ECUX1H681JCV	C. CAPACITOR CH 50V 680P	1		C2737-39	ECUX1C333KBV	C. CAPACITOR CH 16V	0. 0330	3	1
C5034	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1		C2740	ECUX1C104KBV	C. CAPACITOR CH 16V	/ 0. 1ป	1	
C5035	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1		C2741-43		C. CAPACITOR CH 50V		1 3	
C5036, 37	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	2		C2745		C. CAPACITOR CH 50V		1	
		C. CAPACITOR CH 50V 0.01U	1		C2747		C. CAPACITOR CH 16V		H	
		C. CAPACITOR CH 50V 0.01U	1	· · · · · · · · · · · · · · · · ·	C2748		C. CAPACITOR CH 50V		1	
		C. CAPACITOR CH 50V 0.01U	1						<del>-</del>	
03031	EGUXTHTU3ZFV	C. CAPACITOR CH SOV U. UIU			C2749		C. CAPACITOR CH 50V		1	
FD5001					C2751		C. CAPACITOR CH 16V		1	
		CONNECTOR (FEMALE)	1		C2752	ECUX1H103ZFV	C. CAPACITOR CH 50V	0.010	1	
FP5002	VJS3251	CONNECTOR (FEMALE)	1		C2753	EEVHB1C100	E. CAPACITOR 16V	100	1	
					C2754	ECUX1H471JCV	C. CAPACITOR CH 50V	470P	1	
I C5001	AN3731FHQ	10	1		C2755	EEVHB1C100	E. CAPACITOR 16V	100	1	
					C2757	ECUX1C105ZFN	C. CAPACITOR CH 16V	10	1	
1.5002 03	VLQ0163K220	COIL 22UH	2				C. CAPACITOR CH 50V		2	
	ELJPA100KF	COIL 10UH	3		C2760		E. CAPACITOR 16V		1	<del></del>
20000 07	CCGI AT GOIG	100.1							+	
05000 00		7011010700			C2762		C. CAPACITOR CH 50V		1	
<b>Q5002</b> , 03		TRANSISTOR	2		C2763		C. CAPACITOR CH 16V		1	
Q5005, O6	2SD1938F	TRANSISTOR	2		C2764		C. CAPACITOR CH6. 3V		1	
					C2766	ECUX1E223KBV	C. CAPACITOR CH 25V	0. 023U	1	
R5002	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		C2767	ECUX1C473KBV	C. CAPACITOR CH 16V	0.0470	1	
R5003	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C2768	EEVHB1E4R7	E. CAPACITOR 25V	4. 70	1	
R5004	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		C2769-71	ECUX1C104ZFV	C. CAPACITOR CH 16V		3	
R5005		M. RESISTOR CH 1/16W 1K	1				C. CAPACITOR CH 16V		8	
R5010		M. RESISTOR CH 1/16W 68	1				C. CAPACITOR CH 50V		3	4
		M. RESISTOR CH 1/16W 1, 5K	1				C. CAPACITOR CH 50V		-	+ · · · · · · · · · · · · · · · · · · ·
R5013		M. RESISTOR CH 1/16W 12K	1						-	
			_		C2783		E. CAPACITOR 16V		1	
		M. RESISTOR CH 1/16W 270	_2				C. CAPACITOR CH 50V		4	1
		M. RESISTOR DH 1/16W 1K	2		C2788		E. CAPACITOR 16V		1	
R5018		M. RESISTOR CH 1/16W B8	1		C2789. 90	ECUX1H562KBV	C. CAPACITOR CH 50V	5600P	2	
R5019	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		C2791	EEVHB1C470	E. CAPACITOR 16V	470	1	
R5020	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		C2792	EEVHB1C100	E. CAPACITOR 16V	100	1	
R5021	ERJ3GEYJ100	M. RESISTOR CH 1/18W 10	-1		C2793	ECUX1H103ZFV	C. CAPACITOR CH 50V	0.010	1	
R5024	ERJ3GEYJ103	M. RESISTOR CH 1/18W 10K	1		C2794	ECUX0J225KBN	C. CAPACITOR CH6. 3V		1	
R5025	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1		C2795		C. CAPACITOR CH 50V		1	
		M. RESISTOR CH 1/16W 0	1		C2796		C. CAPACITOR CH 50V		<del>-</del>	
R5028		M. RESISTOR CH 1/16W 1.5K	1		-				1	
					G2797		C. CAPACITOR CH 16V		1	<del></del>
		M. RESISTOR CH 1/18W 0	4		C2798		C. CAPACITOR CH 50V		1	
R5040, 41	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2				C. CAPACITOR CH 16V		2	
							E. CAPACITOR 50V		2	!
		MISCELLANEOUS			C2803		C. CAPACITOR OH 50V	0.010	1	
					C2807, 08	EEVHB1C100	E. CAPACITOR 16V	100	2	!
	VSC4698	SHIELD CASE (A)	1		C2809	EEVHB0J330	E. CAPACITOR 6. 3V	330	1	
					C2810	ECUX1C104KBV	C. CAPACITOR CH 16V	0.10	1	
l					C2811	EEVHB0J330	E. CAPACITOR 6. 3V	330	1	
					C6301-06	ECUX1C104ZFV	C. CAPACITOR CH 16V	0.10	е	
					C6307		E. CAPACITOR 16V		-	
					C6308-13		C. CAPACITOR CH 16V		-	
	VEP02557A	MECHANISM DRIVE C. B. A.	1	(RTL)			C. GAPACITOR CH 16V		3	
			<u> </u>						-	
			_						<del>-</del>	
02701 00	ENIVIUI COTE	C CADACITOD OU FOU O COM	_				C. CAPACITOR CH 16V		-	
		C. CAPACITOR CH 50V 0.01U	2		C6328		E. CAPACITOR 16V		-	
C2703		C. CAPACITOR CH 16V 0.1U			C6501		C. CAPACITOR CH 16V		-	
		E. CAPACITOR 50V 2.2U	_		C6502	ECUX1H102KBV	C. GAPACITOR CH 50V	1000P	1	
	<del></del>	C. CAPACITOR CH 16V 0. 047U			C6504		E. CAPACITOR 16V		1	
		C. CAPACITOR CH 16V 0. 47U	. 1		C6505	ECUX1C224ZFV	C. CAPACITOR CH 16V	0. 22U	1	
C2707	ECUX1A104KBV	C. CAPACITOR CH 10V 0.1U	1		C6506		C. CAPACITOR CH 16V		1	
C2708	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1		C6507	ECUX1H102KBV	C. CAPACITOR CH 50V		1	
C2709	EEVHB1C100	E. CAPACITOR 16V 10U	1		C6509		E. CAPACITOR 16V		-	
C2710, 11		E. CAPACITOR 50V 2. 2U	2		C6510		C. CAPACITOR CH 16V		-	<del> </del>
		C. CAPACITOR CH 16V 0. 047U	2				E. CAPACITOR CH 50V		+	
		C. CAPACITOR CH 18V 0. 1U	2		C6511, 12					
			3				E. CAPACITOR 16V			
		C. CAPACITOR CH 16V 0. 033U	_		C6515		C. CAPACITOR CH 16V			· · · · · · · · · · · · · · · · · · ·
C2719		C. CAPACITOR CH 16V 0.1U	1				C. CAPACITOR CH 50V		8	
		C. CAPACITOR CH 50V 4700P	3		C6519		C. CAPACITOR CH 16V		1	
C2723		E. CAPACITOR 10V 33U			C6520		E. CAPACITOR CH 50V	3.30	1	
02724		C. CAPACITOR CH 16V 0. 1U	1		C6522	EEVHB1C100	E. CAPACITOR 16V	100	1	
C2725	EEVHB1H2R2	E. CAPACITOR 50V 2. 2U	1		C6523-26	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	4	
C2728	ECUX1C473KBV	C. CAPACITOR CH 16V 0. 047U	1		C6527		C. CAPACITOR CH 10V		1	
C2727	ECUX1C474KBN	C. CAPACITOR CH 16V 0. 47U	1		C6529		C. CAPACITOR CH 50V		1	
C2728		C. CAPACITOR CH 10V 0.1U	1		C6530		C. CAPACITOR CH 16V		1	<del>                                     </del>
C2729		C. CAPACITOR CH 50V 0, 01U	1		C8531		C. CAPACITOR CH 50V		+	<del>                                     </del>
C2730		E. CAPACITOR 18V 10U	1	· · · · · · · · · · · · · · · · · · ·	C6532				<del>  '</del>	<del> </del>
			- 1	· · · · · · · · · · · · · · · · · · ·			C. CAPACITOR CH 10V		+	<del> </del>
	EEVHB1H2R2	· · · · · · · · · · · · · · · · · · ·	2		C6534		C. CAPACITOR CH 10V		1	
02/33, 34	EUUA 1U4/3KBV	C. CAPACITOR CH 16V 0, 047U	2		C6536	ECUX 1H1 02KBV	C. CAPACITOR CH 50V	1000P	1	
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Ref. No.	Part No.	Part Name & Description	Pc	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
C6537	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1		P6514	VJP3172D004	CONNECTOR (MALE)	1	
C6538	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		P6520	VJP3172D003	CONNECTOR (MALE)	1	
C6539		C. CAPACITOR CH 10V 1U	1					-	
C6541		C. CAPACITOR CH 16V 0. 1U	1		Q2701	2SD1328	TRANSISTOR	1	<del>                                     </del>
		E. CAPACITOR CH 50V 3, 3U	2		02703, 04	MSD601-R		2	
			4				TRANSISTOR	-	
			4		Q6301	MSD601-R	TRANSISTOR	_ 1	
		C. CAPACITOR CH 16V 0.1U	4		Q6302	2SB1073	TRANSISTOR	1	
		E. CAPACITOR 16V 47U	2		Q6303	MSD601-R	TRANSISTOR	1	
C6558	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		Q8304	2SB1073	TRANSISTOR	1	
C6559	EEVHB1C100	E. CAPACITOR 16V 10U	1		Q6305	MSD601-R	TRANSISTOR	1	
C6565, 66	EEVHB0J220	E. CAPACITOR 6. 3V 22U	2		Q6306	2SB1073	TRANSISTOR	1	
			_		Q6307	2SB1073-R	TRANSISTOR	1	
02713-16	MARSE	DIODE	4		Q6308	MSD601~R		<u> </u>	
02717			1			<del></del>	TRANSISTOR	1	
		DIODE	-		Q6502	2SB709A	TRANSISTOR	1	
D6301		DIODE	1		Q6503	2SB1073	TRANSISTOR	1	L
D6302-09	AK04	DIODE	8		<b>Q</b> 6504	2SB710	TRANSISTOR	1	1
D6310	MA142WK	DIODE	- 1		Q6505	2SB1073	TRANSISTOR	1	
D6311	MA4043-L	DIODE	1						
D6312-15	AK04	DIODE	4		QR6301-03	XN1112	TRANSISTOR-RESISTOR	3	
D6316	MA142WK	DIODE	1		QR6304, 05		TRANSISTOR-RESISTOR	2	
D6317		DIODE	1		QR6306-09		TRANSISTOR-RESISTOR	4	
D6318-34		DIODE	17					-	
D6501	AK04		1		QR6314-16		TRANSISTOR-RESISTOR	3	
		DIODE	_		QR6317	UN221D	TRANSISTOR	1	
		DIODE	2		QR6318	XN4213	TRANSISTOR-RESISTOR	1	
D6511	MA721WK	DIODE	1		QR6502	MUN2213	TRANSISTOR-RESISTOR	1	
					QR6503	MUN2212	TRANSISTOR-RESISTOR	1	
102701	NJM2903M	IC	1		QR6504	UN2211	TRANSISTOR-RESISTOR	1	
FC2702	UPC4558G2	IC	1		QR6508	XN1212	TRANSISTOR-RESISTOR	1	<del> </del>
IC2703, 04		IC	2		QR6511	MUN2113	TRANSISTOR-RESISTOR	+	<del></del>
102705	UPC4558G2	IC	1		QR6514	MUN2113		-	
102706	NJM2903M	IC	1				TRANSISTOR-RESISTOR	1	
			_		QR6515	MUN2213	TRANSISTOR-RESISTOR	1	
102707	NJM2904M	IC	1		QR6517	MUN2213	TRANSISTOR-RESISTOR	_1	
IC2708	TB6519F	IC	1					<u> </u>	
IC2709	PU3210	TRANSISTOR	1		R2701	ERJ3RBD273	M. RESISTOR CH 3W 27K	1	
I C2710	PU3110	TRANSISTOR	1		R2703, 04	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
IC2711	PU3210	TRANSISTOR	1		R2705	ERJ3GEY@152	M. RESISTOR CH 1/16W 1.5K	1	
102712	PU3110	TRANSISTOR	1		R2706		M. RESISTOR CH 1/16W 5. 6K	i	
1C2714	NJM2903M	IC	1		R2707		M. RESISTOR CH 1/16W 330	1	
	NJM2904M	IC	1		R2710			ı.	
	BA6219BFP-Y	IC	3				M. RESISTOR CH 3W 47K	1	
	UPD4538BG		1		R2711		M. RESISTOR CH 3W 82K	_1	
		10	_		R2712		M. RESISTOR CH 3W 15K	1	
106305	NJM2903M	10	1		R2713		M. RESISTOR OH 1/16W 33	_1	
I C6306	UPD4538BG	IC	_1		R2714, 15	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
	BA6887-V3	IC	2		R2716	ERJ14YJ330	M. RESISTOR CH 1/4W 33	1	
C6503	NJM2904M	IC	1		R2717	ERJ14YK2R2	M. RESISTOR CH 1/4W 2.2	1	
106504, 05	UPC4558G2	IC	2		R2718	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
106506-08	NJM2903M	IC	3		R2719		M. RESISTOR CH 1/16W 39K	1	
IC6509, 10	NJM2904M	IC	2		R2720-22		M. RESISTOR CH 1/4W 33	3	
106511	UPC4558G2	IC	1		R2723		M. RESISTOR CH 1/4W 2.2	- 3	
IC6512		10	1					-	
	UPC4558G2	10	-				M. RESISTOR CH 1/16W 4.7K	-	<del></del>
			1				M. RESISTOR CH 1/16W 39K	1	
I C6514	ON1114. VT	PHOTO INTERRUPTER	1				M. RESISTOR CH 1/4W 33	2	
100			_				M. RESISTOR CH 1/16W 10K	2	
K2701, 02	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2		R2730	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
					R2731	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
L2701.02	VLQ0599J680	COIL 68UH	2		R2732		M. RESISTOR CH 1/16W 15K	1	
					R2733		M. RESISTOR CH 1/18W 1K	1	
LB2702	VLP0145	CHIP INDUCTOR	1		R2734		M. RESISTOR CH 1/18W 180K	1	
			٠.		R2735			-	<del>-</del>
P2701 02	VJS3813B017	CONNECTOR (FEMALE)	2				M. RESISTOR CH 1/16W 15K	1	
P2701, 02	VJS3319B009		1		R2736		M. RESISTOR CH 1/16W 1.2K	1	
		CONNECTOR (FEMALE)	_				M. RESISTOR CH 1/16W 27K	1	
P2704	VJS3406B019	CONNECTOR (FEMALE)	1		R2738		M. RESISTOR CH 1/16W 1M	1	
P2705	VJP1929T	CONNECTOR (MALE)	_1		R2739		M. RESISTOR CH 1/16W 1K	1	
	VJP3518B002	CONNECTOR (MALE)	2		R2740	ERJ3GEYJ392	M. RESISTOR CH 1/18W 3.9K	1	
P6303	VJP3518B003	CONNECTOR (MALE)	1		R2741		M. RESISTOR CH 1/16W 1M	1	
P6501	VJP3518B002	CONNECTOR (MALE)	1		R2742		M. RESISTOR CH 1/16W 3.9K	1	
P6502		CONNECTOR (MALE)	1		R2743		M. RESISTOR CH 1/18W 0	- '	
P6503		CONNECTOR (MALE)	1		R2744				
P6504	<del></del>	CONNECTOR (FEMALE)	1				M. RESISTOR CH 1/18W 2.2K	1	
P6505			-		R2745		M. RESISTOR CH 1/18W 1K	1	
		CONNECTOR (FEMALE)	1		R2747		M. RESISTOR CH 1/16W 1K	_ 1	
P6506	<del>                                     </del>	CONNECTOR (MALE)	1		R2748	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
P6507	VJP3172D002	CONNECTOR (MALE)	1		R2749	ERJ3GEYJ582	M. RESISTOR CH 1/16W 5.6K	1	
P6508	VJP31720004	CONNECTOR (MALE)	1		R2750		M. RESISTOR CH 1/16W 560	1	
P6509	VJS2959B008	CONNECTOR (FEMALE)	1		R2751		M. RESISTOR CH 1/8W 0.33	1	
P6510	VJP3172D002	CONNECTOR (MALE)	1		R2752		M. RESISTOR CH 1/8W 0.47	1	
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	<del>                                     </del>				<b>—</b>	<del></del>			
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
R2753	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R6344	ERJ3GEYJ103	M. RESISTOR: CH 1/16W 10K	-	
R2754-56	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	3		R6345	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	<del>                                     </del>
R2757	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R6346	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R2758	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6347-49			<del></del>	
	ERJ3GEYG471					ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/16W 470	1		R6501	ERJ3RBD123	M. RESISTOR CH 3W 12K	1	
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6502	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R2762	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R6503	ERJ3GEYG154	M. RESISTOR CH 1/16W 150K	1	
R2763	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1		R6504	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2764	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R6505	ERJ14YJ101	M. RESISTOR CH 1/4W 100	1	
R2765	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R6506	ERJ3GEYJ272		1	
R2766	ERJ3GEYG392	M. RESISTOR CH 1/16W 3. 9K	1					<del>                                     </del>	
			-		R6507		M. RESISTOR CH 1/16W 330K	1	
R2768	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	_1	~~~~	R6508	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1, 2K	1	
R2769	ERJ3RBD153	M. RESISTOR CH 3W 15K	-1		R6509	ERJ3RBD332	M. RESISTOR CH 3W 3.3K	1	
R2770	ERJ3RBD823	M. RESISTOR CH 3W 82K	1		R6510	ERJ3RBD153	M. RESISTOR CH 3W 15K	1	
R2771	ERJ3RBD473	M. RESISTOR CH 3W 47K	1		R6511	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R2772	ERJ3RBD102	M. RESISTOR CH 3W 1K	1		R6512	ERJ3RBD153	M. RESISTOR CH 3W 15K	+	
	ERJ14YK2R2	M. RESISTOR CH 1/4W 2.2	2			ERJ3RBD113		-	
					R6513		M. RESISTOR CH 3W 11K	1	
		M. RESISTOR CH 3W 27K	_1		R6514		M. RESISTOR CH 1/16W 10K	1	
R2777		M. RESISTOR CH 1/16W 82K	1		R6515	ERJ14YK3R9	M. RESISTOR CH 1/4W 3.9	1	
	ERJ3GEYG912	M. RESISTOR CH 1/16W · 9.1K	- 1		R6516-18	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R2779	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1		R6519		M. RESISTOR CH 1/10W 4.7K	1	
R2780, 81	ERJ3GEYJ103	M. RESISTOR CH 1/18W 10K	2		R6520		M. RESISTOR CH 1/16W 82K	1	
		M. RESISTOR CH 1/16W 1K	1		R6521			<del>-</del>	
		M. RESISTOR CH 1/16W 68K	1				M. RESISTOR CH 1/16W 2. 7K	1	
			-		R6522		M. RESISTOR CH 1/16W 1.2K	1	
		M. RESISTOR CH 1/16W 4. 7K	1		R6523		M. RESISTOR CH 1/16W 1.8K	1	
R2786		M. RESISTOR CH 1/18W 1.5K	1		R6524	ERJ14YK5R6	M. RESISTOR CH 1/4W 5.6	1	
R2787	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R6525-27	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R2788	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R6529		M. RESISTOR CH 1/16W 0	1	
R2789		M. RESISTOR CH 1/16W 10K	1		R6530			1	
		M. RESISTOR CH 1/16W 1K	1				M. RESISTOR OH 1/18W 10K	-	
			_		R6532		M. RESISTOR CH 1/16W 10K	1	
		M. RESISTOR CH 1/16W 1.5K	1		R6533, 34	ERJ3RED184	M. RESISTOR CH 3W 180K	2	
R2792	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R6535	ERJ3GEYG123	M. RESISTOR CH 1/16W 12K	1	
R2793	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R6536	ERJ3GEYG363	M. RESISTOR CH 3W 36K	1	
R2794	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R6537, 38		M. RESISTOR CH 1/16W 22K	2	
R2795		M. RESISTOR CH 1/18W 1K	1		R6541		M. RESISTOR CH 1/18W 6.8K	1	
		M. RESISTOR CH 3W B2K	1					-	
			_		R6542		M. RESISTOR CH 3W 10K	1	
R2798		M. RESISTOR CH 3W 1K	_1		R6543	ERJ3RBD392	M. RESISTOR CH 3W 3.9K	1	
	ERJ3GEYG154	M. RESISTOR CH 1/16W 150K	1		R6544	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R2800	ERJ8R0JR27	M. RESISTOR CH 1/8W 0.27	1		R6545	ERJ3RBD104	M. RESISTOR CH 3W 100K	1	
R2801,02	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2		R6546	ERJ3RBD103	M. RESISTOR CH 3W 10K	1	
R2803	ERJ3GEYG102	M. RESISTOR CH 1/18W 1K	1		R6547		M. RESISTOR CH 1/16W 10K	1	
		M. RESISTOR CH 1/10W 1.2K	1		R6548			$\overline{}$	
							M. RESISTOR CH 1/16W 220	1	
		M. RESISTOR CH 1/16W 0	1		R6549		M. RESISTOR CH 1/16W 1. 2K	1	
		M. RESISTOR CH 1/16W 33K	1		R6550	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R2807	ERJ3GEYG563	M. RESISTOR CH 1/16W 56K	1		R6551	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2808	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R6552	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R6301	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R6553, 54		M. RESISTOR CH 1/16W 10K	2	
R6302	ERJ14YJ561	M. RESISTOR CH 1/4W 560	1		R6555			$\vdash$	
			5					1	
		M. RESISTOR CH 1/16W 10K	_				M. RESISTOR CH 1/16W 10K	2	
		M. RESISTOR CH 1/16W 47K	_		R6558		M. RESISTOR CH 1/16W 180K	-	
		M. RESISTOR CH 1/16W 220K	2		R6559, 60	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
		M. RESISTOR CH 1/16W 47K	_1		R6561	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R6312, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R6562, 63		M. RESISTOR CH 1/16W 10K	2	
R6314	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R6564		M. RESISTOR CH 1/16W 1M	1	
		M. RESISTOR CH 1/16W 47K	1		R6565		M. RESISTOR CH 1/16W 0	1	
		M. RESISTOR OH 1/16W 33K	2						
			-		R6566		M. RESISTOR CH 1/16W 1M	1	
		M. RESISTOR CH 1/16W 47K	-1		R6567		M. RESISTOR CH 1/16W 10K	1	
		M. RESISTOR CH 1/16W 22K	1		R6568	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	_1		R6569	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6321	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R6570		M. RESISTOR CH 1/16W 1M	1	
		M. RESISTOR CH 1/16W 390K	2		R6571		M. RESISTOR CH 1/16W 0	1	
		M. RESISTOR CH 1/16W 100K	6		R6572			-	
			$\overline{}$				M. RESISTOR CH 1/16W 1M	1	
		M. RESISTOR CH 1/16W 10K	_1		R6573		M. RESISTOR CH 1/16W 10K	1	
		M. RESISTOR CH 1/16W 4. 7K	2		R6574	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
		M. RESISTOR CH 1/16W 10K	1		R6575	ERJ3RBD182	M. RESISTOR CH 3W 1.8K	1	
R6334	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1		R6576, 77		M. RESISTOR CH 3W 22K	2	
R6335	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1				M. RESISTOR CH 1/16W 2. 2K	3	***************************************
R6336		M. RESISTOR CH 1/16W 2.2K	1					_	
		M. RESISTOR CH 1/16W 22K	1				M. RESISTOR CH 1/16W 2. 7K	В	
							M. RESISTOR CH 1/16W 2.2K	3	
		M. RESISTOR CH 1/16W 4. 7K	1		R6590		M. RESISTOR CH 1/18W 10K	1	
		M. RESISTOR CH 1/16W 150	1		R6591	ERJ3GEYJ223	M. RESISTOR OH 1/16W 22K	1	
R6340		M. RESISTOR CH 1/16W 10K	1		R6592	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6341	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1		R6593, 94		M. RESISTOR CH 1/10W 2.2K	2	
		M. RESISTOR CH 1/16W 4. 7K	1		R6595		M. RESISTOR CH 1/16W 10K	-	
		M. RESISTOR CH 1/16W 150	1					-!	
		130	- 1	I	10390	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
			_						
	i							_ ]	
								_	

			<u> </u>						<b>,</b>	
MOSTON   CALL-MARKEN   MERITOR OF LATE   SET   1	Ref. No.	Part No.	Part Name & Description	Pc:	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
March   Marc	R6597	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		D7519, 20			2	Toma No
BASSING   BLAZEFY LINE   M. SELSTON OF LYTER 10   1	R6598	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1					1 2	
BASISTER   BASISTER   MERITOR   ME	R6599	<del></del>		-			<del></del>		-	
MARCHANNES    MARCHANNES				-					-	
				-					+	
				<b>├</b>		07334	MIX4U30-11	DTODE	'	
SAUSETATION   A SESTITION OF LYTIME   106   1   1   1   1   1   1   1   1   1				Η.					-	
Beal     Bayer				<u> </u>		DP /501	VSL0518	FIP	1	1
Best   Business   Bu				1					_	
		<del></del>		<u> </u>		I C7501	MN1874823	1C	1	
BASISTE   SALVEY-1223   MESTATOR ON 1-7 MP   220   1				1		107502	M6601 OGP	IC	1	
1980   SP   1064   SH   1074   1	R6615-17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		107503	PST7043	IC	1	
1989   1987   1984   1981   1985   1981   1985   1982   1985   1981   1985	R6618	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		IC7504	BA6138	IC	1	
198502   SP\$ 1050   SRITON				L		1C7505	RN5RZ40BA	IC	1	
MSSSIDE   MSSSIDE	S6501	VSP1054	SWITCH	1						
	\$6502	VSP1055	SWITCH	1		K7503	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	
17502   17502   17503   1750	\$6503	VSP1054	SWITCH	1						
P27217 - OK-N90098   TEST POINT	\$6504	VSS0512	SWITCH	1		L7501	VL00599J101	COLL 100HH	1	
P2-211-0-Q-U-ROSONS   TEST POINT   5   P7-501   VUSSS789-10-10   0   1				<u> </u>					-	·
PPS001   VASSS3701010   CONSECTION FUNDALE   1	TP2701-04	V.IROOB8	TEST POINT	4		E7002	72403330220	22011	+	
P7002						23504	1/ 100507004 70	CAMPAGE (FERRILLE)	-	<del>                                     </del>
P7500   P750	17-0301-00	100000	TEST FOINT	3					-	
PF500	1/00701 04		W BEGLETER	H					1	
P7504   W.12981030084   RESISTOR   506   1				2			-		1	
				1					1	
	VR6502	EVMEGSA00B54	V. RESISTOR 50K	1				CONNECTOR (FEMALE)	1	
VILLED HIGH STORM   FLAT CARD CABLE   1						P7601	VJS1231T	CONNECTOR (FEMALE)	1	
VMJSPMRGROMM FLAT CARD CABLE   1   007201-12 MARCE 12   TRANSISTOR-RESISTOR   1   1   1   1   1   1   1   1   1			MISCELLANEOUS							
VILIZEMPROSOMN FLAT CARD CABLE   1   067201-12 MARCE   2   12   12   12   13   14   15   15   15   15   15   15   15						Q7501	2SD973B-R	TRANSISTOR	1	
WPOTAGSA   THER C. B. A.   1 (OTL)   PROSECUTION   PROS		VWJ26HW080MM	FLAT CARD CABLE	1					-	1
WPOTAGSA   THER C. B. A.   1 (OTL)   PROSECUTION   PROS		VWJ32HW080MM	FLAT CARD CABLE	1		QR7501-12	MUN2112	TRANSISTOR-RESISTOR	12	
March   Mar									-	
## VP07A05A TIMER C. B. A.   1 (RTL)			$\vdash$					-		
## VEPO7ASSA TIMER C. B. A. 1 (STL)  ## VEPO7ASS						40,010 21	MONZITZ	TIGHTOTOR RESISTOR	-	
## VEPO7ASSA TIMER C. B. A. 1 (STL)  ## VEPO7ASS						P7501-05	ED ISCEVOLOA	M DECISION OF 1/10M 100K	-	
WFEP7A05A   TIMER C. B. A.   1   GTL)									_	
R7501   GR254-1 GUF   BATTERY		VEDOZAGEA	TIMED C P A	-	/PTI \					<del></del>
P7510   CRASS4-10UF BATTERY   1		VEPUTAUSA	TIMER C. B. A.		(RIL)				-	+
R7501   CR2354-1UUF   BATTERY									_	
1750  0.2 EQMINHOSZEPI C. CAPACITOR OF 50V 0.01U 2									1	
27501,02   EQMINH032FN   C. CAPACITOR CH 50V   0.010   2   877513   EARGEP0332Z   M. RESISTOR CH 1/10W   3.3K   1   1   1   1   1   1   1   1   1	8/501	CR2354-1 GUF	BATTERY	1			ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	
C7503   ECALOMATOL   C.APACTTOR 16V   100   1						R7512	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
C7504   E08H233UF   P. CAPACITOR   50V   0.022U   1		ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2		R7513	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
C7505   ECRAUNAIQUE   CAPACITOR   G. 3V   220U   1	C7503			_1		R7514-19	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	6	
C7506   ECRAIVKATOD   E. CAPACITOR   38V   10U   1	C7504	ECQB1H223JF	P. CAPACITOR 50V 0. 022U	1		R7521	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
C7507   ECALIKKF580   E. CAPACITOR 18V 58U 1   R7525   ERJ86EYG153   M. RESISTOR CH 1/10W 15K 1   R7526   ERJ86EYG153   M. RESISTOR CH 1/10W 15K 1   R7526   ERJ86EYG352   M. RESISTOR CH 1/10W 15K 1   R7527-29   ERJ86EYG352   M. RESISTOR CH 1/10W 15K 3   R7527-29   ERJ86EYG153   M. RESISTOR CH 1/10W 15K 3   R7528-38   ERJ86EYG163   M. RESISTOR CH 1/10W 15K 1   R7528-38	C7505	ECEAOJKA221	E. CAPACITOR 6. 3V 220U	_1		R7522	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
C7507   ECAINF1805   E. CAPACITOR   18V   58U   1	C7506	ECEATVKA100	E. CAPACITOR 35V 10U	1		R7524			-	<del></del>
C7508   ECUMH102ZFN   C. CAPACITOR CH 50V   0.01U   1	C7507	ECA1CKF560	E. CAPACITOR 16V 56U	1		R7525			_	
C7500 ECUMINEATSZEN C. CAPACITOR CH 25V 0.047U 1  77510 ECUMINITAZEN C. CAPACITOR CH 25V 0.047U 1  77511 A CEUMINITAZEN C. CAPACITOR CH 50V 0.100P 1  77513 A RESISTOR CH 1/10W 10K 3  77510 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 4  77515-18 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 4  77516 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 4  77517 B CEUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77518 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77519 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77512 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77512 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77512 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77513 ERJOREVIAL SI M. RESISTOR CH 1/10W 10K 5  77512 ECUMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77514 ERJOREVIAL SI M. RESISTOR CH 1/10W 20K 1  77515 ECECIAMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77514 ECRACKISSI E. CAPACITOR CH 50V 0.01U 1  77515 ECECIAMINITAZEN C. CAPACITOR CH 50V 0.01U 1  77514 ECECALAMISTI E. CAPACITOR CH 50V 0.01U 1  77515 ECECALAMISTI E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77515 ECECALORSIO E. CAPACITOR CH 50V 0.01U 1  77516 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77516 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77517 ERJOREVIAL SHE SEISTOR CH 1/10W 10K 1  77518 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77519 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77510 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77510 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77510 ECEALORSIO E. CAPACITOR CH 50V 0.01U 1  77510 ERJOREVIAL SHE SEISTOR CH 1/10W 10K 1  77510 ERJOREVIAL SHE SEISTOR CH 1/10W 10K 1  77510 ERJOREVIAL SHE SEISTOR CH 1/10W 10K 1  77510 ERJOREVIAL S	C7508	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1					_	<del>                                     </del>
C7510   ECUMH102KBN   C. GAPACITOR CH 50V   1000P   1				1					-	<del> </del>
C7513, 14   ECUMH103ZFN   C. CAPACITOR CH 50V   O. 1U   2   R7532   ERJ8GEY9103   R. RESISTOR CH 1/10W   10K   1   1   1   1   1   1   1   1   1				1					-	
C7515-18   ECUMIHIO3ZFN   C. CAPACITOR CH 50V   0.01U   4				_					-	
C7519 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1									-	
C7520   EQMIHI270JCN   C. CAPACITOR CH 50V   27P   1     R7539   ERJ8GEYG273   M. RESISTOR CH 1/10W   27K   1     C7521   EQMIHI1000CN   C. CAPACITOR CH 50V   0. 1U   1   R7540   ERJ8GEYG233   M. RESISTOR CH 1/10W   30K   1   C7522   EQMIHI100ZFN   C. CAPACITOR CH 50V   0. 1U   1   R7541   ERJ8GEYG221   M. RESISTOR CH 1/10W   330K   1   C7524   ECEALAMIOIT   E. CAPACITOR   10V   100U   1   R7549   ERJ8GEYG221   M. RESISTOR CH 1/10W   22C   1   C7524   ECEAJUSS331   E. CAPACITOR   25V   4. 7U   2   R7550   ERJ8GEYG102   M. RESISTOR CH 1/10W   10K   1   C7525   ECEALISMS31   E. CAPACITOR   25V   4. 7U   2   R7551   ERJ8GEYG102   M. RESISTOR CH 1/10W   10K   1   C7526   ECEAJUSS31   E. CAPACITOR   25V   4. 7U   2   R7551   ERJ8GEYG102   M. RESISTOR CH 1/10W   10K   1   C7527   ECEALOSS100   E. CAPACITOR   16V   10U   1   R7552   ERJ8GEYG103   M. RESISTOR CH 1/10W   47K   1   C7530   ECEALOSS100   E. CAPACITOR   16V   100U   1   R7553   ERJ8GEYG123   M. RESISTOR CH 1/10W   47K   1   C7530   ECEAICKA101   E. CAPACITOR   16V   100U   1   R7553   ERJ8GEYG122   M. RESISTOR CH 1/10W   47K   1   C7530   ECEAICKA101   E. CAPACITOR   16V   10U   1   R7553   ERJ8GEYG122   M. RESISTOR CH 1/10W   1/2 K   2   C7531   ECEAICKA100   E. CAPACITOR   16V   10U   1   R7555   ERJ8GEYG123   M. RESISTOR CH 1/10W   1/2 K   2   C7534   ECUMIHI04ZFN   C. CAPACITOR   16V   10U   1   R7556   ERJ8GEYG123   M. RESISTOR CH 1/10W   1/2 K   2   C7534   ECUMIHI04ZFN   C. CAPACITOR   50V   0. 1U   1   R7556   ERJ8GEYG122   M. RESISTOR CH 1/10W   1/2 K   2   C7534   ECUMIHI04ZFN   C. CAPACITOR   50V   0. 1U   1   R7556   ERJ8GEYG122   M. RESISTOR CH 1/10W   1/2 K   1   C7534   ECUMIHI04ZFN   C. CAPACITOR   50V   0. 1U   1   R7557   ERJ8GEYG122   M. RESISTOR CH 1/10W   1/2 K   1   C7534   ECUMIHI04ZFN   C. CAPACITOR   50V   0. 1U   1   R7556   ERJ8GEYG122   M. RESISTOR CH 1/10W   1/2 K   1   C7534   ECUMIHI04ZFN   C. CAPACITOR   50V   0. 1U   1   R7556   ERJ8GEYG122   M. RESISTOR CH 1/10W   1/2 K   1   C7534   ECUMIHI04ZFN   C. CAPACITOR   50V   0									-	<del></del>
C7521   ECUMINIODON   C. CAPACITOR   CH   50V   10P   1									5	
C7522   ECUMINIO4ZFN   C. CAPACITOR CH 50V   0.1U   1				1				***************************************	~	<del></del>
C7523 ECEA1AM101T E. CAPACITOR 10V 100U 1 C7524 ECEAOLKS331 E. CAPACITOR 8. 3V 330U 1 C7525.28 ECEA1EKS4R7 E. CAPACITOR 25V 4. 7U 2 C7527 ECEA1CKS100 E. CAPACITOR 16V 10U 1 C7528 ECUMIH103ZFN C. CAPACITOR 16V 100U 1 C7528 ECUMIH103ZFN C. CAPACITOR 16V 100U 1 C7530 ECEA1CKA100 E. CAPACITOR 16V 100U 1 C7531 ECEA1CKA100 E. CAPACITOR 16V 100U 1 C7531 ECEA1CKA100 E. CAPACITOR 16V 10U 1 C7532 ECUMIH104ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIH105CN CHIP 20125 (NPO) 1 C7536 ECUMIH105CN CHIP 20125 (NPO) 1 C7537 ECEANCKA100 E. CAPACITOR 16V 10U 1 C7538 ECUMIH104ZFN C. CAPACITOR 16V 10U 1 C7539 ECCMIH104ZFN C. CAPACITOR 16V 10U 1 C7530 ECEA1CKA100 E. CAPACITOR 16V 10U 1 C7531 ECEANCKA100 E. CAPACITOR 16V 10U 1 C7532 ECUMIH105CN CHIP 20125 (NPO) 1 C7534 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1 C7536 ECUMIH104ZFN C. CAPACITOR 16V 10U 1 C7537 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7538 ECUMIH104ZFN C. CAPACITOR 16V 10U 1 C7539 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1 C7530 ECEANCKA100 E. CAPACITOR 16V 10U 1 C7531 ECEANCKA100 E. CAPACITOR CH 50V 0.1U 1 C7532 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1 C7534 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1 C7536 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7537 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7538 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7539 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7530 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7531 ERUBGEVFG12 M. RESISTOR CH 1/10W 10K 1 C7				-					_	<del></del>
C7524 ECEAUKS331 E. CAPACITOR 6. 3V 330U 1 C7525, 28 ECEAIEKS4R7 E. CAPACITOR 25V 4. 7U 2 C7527 ECEAICKS100 E. CAPACITOR 16V 10U 1 C7528 ECUMIHI03ZFN C. CAPACITOR 16V 10U 1 C7530 ECEAICKA101 E. CAPACITOR 16V 10U 1 C7530 ECEAICKA101 E. CAPACITOR 16V 10U 1 C7531 ECEAICKA102 E. CAPACITOR 16V 10U 1 C7532 ECUMIHI03ZFN C. CAPACITOR 16V 10U 1 C7533 ECUMIHI03ZFN C. CAPACITOR 16V 10U 1 C7531 ECEAICKA102 E. CAPACITOR 16V 10U 1 C7532 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7533 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7536 ERJ6GEY6123 M. RESISTOR CH 1/10W 10K 1 C7534 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7536 ERJ6GEY6123 M. RESISTOR CH 1/10W 10K 1 C7536 ERJ6GEY6123 M. RESISTOR CH 1/10W 10K 1 C7537 ERJ6GEY6123 M. RESISTOR CH 1/10W 10K 1 C7538 ERJ6GEY6123 M. RESISTOR CH 1/10W 10K 1 C7539 ERJ6GEY6123 M. RESISTOR CH 1/10W 220 3 C7530 MA4130H DIODE 1 C7530 MA4130H DIODE 2 C7531 ERJ6GEY6123 M. RESISTOR CH 1/10W 220 8 C7530 MA4088 DIODE 1 C7530 ERJ6GEY6123 M. RESISTOR CH 1/10W 33K 1 C7530 ERJ6GEY6121 M. RESISTOR CH 1/10W 33K 1 C7530 MA4088 DIODE 1 C7530 MA4088 DIODE 1 C7530 MA4088 DIODE 1 C7530 MA508 PROBLEM 10DE 1 C7530 MA				_					1	
C7525.28   ECEAIEKS4R7   E. CAPACITOR   25V   4.70   2     R7551   ERJ8GEYG102   M. RESISTOR CH 1/10W   10K   1   1   1   1   1   1   1   1   1									-1	
C7527   ECEATCKS100   E. CAPACITOR   16V   10U   1		· · · · · · · · · · · · · · · · · · ·		<u> </u>		R7550	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
C7528 ECUMIH103ZFN C. CAPACITOR CH 50V 0.01U 1  C7530 ECEA1CKA101 E. CAPACITOR 16V 100U 1  C7531 ECEA1CKA101 E. CAPACITOR 16V 10U 1  C7532 ECUMIH104ZFN C. CAPACITOR 16V 10U 1  C7532 ECUMIH104ZFN C. CAPACITOR 16V 10U 1  C7534 ECUMIH560JCN CHIP 20125 (NPO) 1  C7534 ECUMIH560JCN CHIP 20125 (NPO) 1  C7536 ERJ6GEYF473 M. RESISTOR CH 1/10W 47K 1  C7536 ERJ6GEYF473 M. RESISTOR CH 1/10W 47K 1  C7536 ERJ6GEYF473 M. RESISTOR CH 1/10W 10K 1  C7537 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1  C7538 ECUMIH560JCN CHIP 20125 (NPO) 1  C7539 ECUMIH560JCN CHIP 20125 (NPO) 1  C754 ECUMIH560JCN CHIP 20125 (NPO) 1  C7550 MA4130H DIODE 1  C7550 BRJ6GEYG221 M. RESISTOR CH 1/10W 220 3  C7550 BRJ6GEYG221 M. RESISTOR CH 1/10W 220 3  C7550 BRJ6GEYG221 M. RESISTOR CH 1/10W 220 8  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 1.2K 1  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 220 1  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 220 1  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 220 1  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 220 1  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 1.2K 1  C7550 BRJ6GEYG22 M. RESISTOR CH 1/10W 220 1  C7550 BRJ6GEYG22 M. RESIS		ECEA1EKS4R7	E. CAPACITOR 25V 4. 7U	2		R7551	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
C7528 ECUMIHI03ZFN C. CAPACITOR CH 50V 0.01U 1 C7530 ECEAICKA101 E. CAPACITOR 16V 100U 1 C7531 ECEAICKA102 E. CAPACITOR 16V 10U 1 C7532 ECUMIHI04ZFN C. CAPACITOR 16V 10U 1 C7534 ECUMIH560JCN CHIP 20125 (NPO) 1 C7534 ECUMIH560JCN CHIP 20125 (NPO) 1 C7534 ECUMIH560JCN CHIP 20125 (NPO) 1 C7536 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7536 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7536 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7537 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7538 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7539 ECUMIH560JCN CHIP 20125 (NPO) 1 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 220 3 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 220 3 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 220 8 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 220 8 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 220 8 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 4 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 4 C7530 ERJ66EYG103 M. RESISTOR CH 1/10W 10K 4 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 4 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 MA4088 DIODE 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 MA700 DIODE 1 C7530 MA700 DIODE 1 C7530 MA700 DIODE 1 C7530 MA700 DIODE 1 C7530 MA700 DIODE 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1 C7530 ERJ66EYG10 M. RESISTOR CH 1/10W 10K 1	07527	ECEA1CKS100	E. CAPACITOR 16V 10U	1		R7552	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
C7530   ECEA1CKA101   E. CAPACITOR   16V   100U   1	C7528	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1						
C7531 ECEAICKA100 E. CAPACITOR 16V 10U 1  C7532 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1  C7534 ECUMIH560JCN CHIP 20125 (NPO) 1  D7501 MA4130H DIODE 1 1  D7502 W MA185 DIODE 2 2  D7504 ERA22-02 DIODE 1 1  D7506 WA608 DIODE 1 1  D7507 LN28RCPPU DIODE 1 1  D7507 LN28RCPPU DIODE 1 1  D7510,11 R841PT-77 DIODE 4  D7510,11 R841PT-77 DIODE 4  D7513-18 LN28RCPPU DIODE 4	07530	ECEA1CKA101		1					_	
C7532 ECUMIH104ZFN C. CAPACITOR CH 50V 0.1U 1  C7534 ECUMIH560JCN CHIP 20125 (NPO) 1	07531			1						
C7534 ECUMIH560JCN CHIP 20125 (NPO) 1 R7565-67 ERJ66EYG221 M. RESISTOR CH 1/10W 220 3  R7568-71 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 4  R7580-87 ERJ6GEYG103 M. RESISTOR CH 1/10W 220 8  R7580-87 ERJ6GEYG122 M. RESISTOR CH 1/10W 220 8  R7580-87 ERJ6GEYG122 M. RESISTOR CH 1/10W 220 8  R7580 ERJ6GEYG122 M. RESISTOR CH 1/10W 1.2K 1  R7590 ERJ6GEYG122 M. RESISTOR CH 1/10W 220 1  R7591 ERJ6GEYG221 M. RESISTOR CH 1/10W 220 1  R7595 ERJ6GEYG221 M. RESISTOR CH 1/10W 220 1  R7595 ERJ6GEYG221 M. RESISTOR CH 1/10W 220 1  R7595 ERJ6GEYG21 M. RESISTOR CH 1/10W 220 1  R7595 ERJ6GEYG21 M. RESISTOR CH 1/10W 220 1  R7596 ERJ6GEYG10 M. RESISTOR CH 1/10W 200 1  R7597 LN28RCPPU D10DE 1  D7507 LN28RCPPU D10DE 1  D7510_11 R8441PT-77 D10DE 2  D7512_11 ESI D10DE 4  D7513-18 LN28RCPPU D10DE 4  D7513-18 LN28RCPPU D10DE 4				1						<del></del>
R7588-71   ERJGGEYG103   M. RESISTOR CH 1/10W   10K   4		<u> </u>								
D7501         MA4130H         D10DE         1         R7580-87         ERJ6GEYG221         M. RESISTOR CH 1/10W 220         8           D7502         03         MA185         D10DE         2         R7589         ERJ6GEYG122         M. RESISTOR CH 1/10W 1.2K         1           D7504         ERA22-02         D10DE         1         R7591         ERJ6GEYG221         M. RESISTOR CH 1/10W 220         1           D7505         MA4088         D10DE         1         R7595         ERJ6GEYF333         M. RESISTOR CH 1/10W 33K         1           D7507         LN28RCPPU         D10DE         1         T7596         ERJ6GEYG101         M. RESISTOR CH 1/10W 100         1           D7509         MA700         D10DE         1         T7591         SWITCH         1           D7510, 11         R8441PT-77         D10DE         2         T7501         ETE13K95AY         TRANSFORMER         1           D7513-18         LN28CPPU         D10DE         4         T7501         ETE13K95AY         TRANSFORMER         1	7.307		EVILV WIV	-						
D7502.03 MA185 D10DE 2 R7589 ERJ6GEYG122 M. RESISTOR CH 1/10W 1.2K 1 D7504 ERA22-02 D10DE 1 R7591 ERJ6GEYG221 M. RESISTOR CH 1/10W 220 1 D7505 MA4088 D10DE 1 R7595 ERJ6GEYF333 M. RESISTOR CH 1/10W 33K 1  △ D7506 VSD0002 D10DE 1 R7596 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 1 D7507 LN28RCPPU D10DE 1 S7501 VSP1053 SWITCH 1 D7509 MA700 D10DE 1 S7501 VSP1053 SWITCH 1 D7510_11 R8441PT-77 D10DE 2 D7512_11ESI D10DE 1 T7501 ETE13K95AY TRANSFORMER 1 D7513-16 LN28RCPPU M. RESISTOR CH 1/10W 100 1 D7513-16 LN28RCPPU D10DE 4	07501	MAA120U	DIODE	-					_	
D7504 ERA22-02 D10DE 1 R7591 ERJ6GEYG221 M. RESISTOR CH 1/10W 220 1 D7505 MA4088 D10DE 1 R7595 ERJ6GEYF333 M. RESISTOR CH 1/10W 33K 1  ⚠ D7506 VSD0002 D10DE 1 R7596 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 1 D7507 LN28RCPPU D10DE 1 S7501 VSP1053 SWITCH 1  D7510_11 R8441PT-77 D10DE 2 D7512_11ES1 D10DE 1 T7501 ETE13K95AY TRANSFORMER 1 D7513-18 LN28RCPPU D10DE 4										
D7505 MA4088 DIODE 1 R7595 ERJ66EYF333 M. RESISTOR CH 1/10W 33K 1  D7506 VSD0002 DIODE 1 R7596 ERJ66EYG101 M. RESISTOR CH 1/10W 100 1  D7507 LN2BRCPPU DIODE 1 S7501 VSP1053 SWITCH 1  D7510,11 R844IPT-77 DIODE 2  D7512 11ESI DIODE 1 T7501 ETE13K95AY TRANSFORMER 1  D7513-18 LN28RCPPU DIODE 4				$\overline{}$					_1.	
↑ D7506 VSD0002 D10DE 1 R7596 ERJ6GEYG101 M.RESISTOR CH 1/10W 100 1  D7507 LN28RCPPU D10DE 1 S7501 VSP1053 SWITCH 1  D7510,11 R8441PT-77 D10DE 2  D7512 11ES1 D10DE 1 T7501 ETE13K95AY TRANSFORMER 1  D7513-18 LN28RCPPU D10DE 4				_			ERJ6GEYG221	M. RESISTOR CH 1/10W 220	_1	
D7507 LN28RCPPU D10DE 1 S7501 VSP1053 SWITCH 1 D7509 MA700 D10DE 1 S7501 VSP1053 SWITCH 1 D7510,11 R8441PT-77 D10DE 2 D7512 11ES1 D10DE 1 T7501 ETE13K95AY TRANSFORMER 1 D7513-18 LN28RCPPU D10DE 4						R7595		M. RESISTOR CH 1/10W 33K	1	
D7509         MA700         D10DE         1         S7501         VSP1053         SWITCH         1           D7510,11         RB441PT-77         D10DE         2	⚠ D7506	VSD0002	DIODE	1		R7596	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
D7510,11         R8441PT-77         D10DE         2           D7512         11ES1         D10DE         1         T7501         ETE13K95AY         TRANSFORMER         1           D7513-16         LN28RCPPU         D10DE         4         1         1	D7507	LN28RCPPU	DIODE	_1						
D7510,11     R8441PT-77     D10DE     2       D7512     11ES1     D10DE     1       D7513-18     LN28RCPUD     D10DE     4       D7513-19     LN28RCPUD     D10DE     4	D7509	MA700	DIODE	1		S7501	VSP1053	SWITCH	1	
D7512         11ES1         D10DE         1         T7501         ETE13K95AY         TRANSFORMER         1           D7513-18         LN28RCPPU         D10DE         4         1	D7510, 11	RB441PT-77	DIODE	2					·	
D7513-18 LN28RCPPU D10DE 4				_		T7501	ETE13K95AY	TRANSFORMER	1	
DTS 17 10 I MOLOCOPHI MILLED				-					-1	
VOTAGE EUREMOTURAS V. RESISTUR SK 1						V07501	ECDI ACTOASS	V DECISTOD	_	
	7 - 17, 10			-		10/301	LUNLAU I UADS	7. NC3131UR 5K	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
						VEP04728A	FRONT (R) C. B. A.	1	
VR7501, 02	EVMF6SA00B14	V. RESISTOR 10K	2						
								Т	
	VSX0666	CRYSTAL OSCILLATOR	1		C4801	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
X7502	VSX0608	CRYSTAL OSCILLATOR	1		C4802	ECEAOJKS470	E. CAPACITOR 6. 3V 47U	1	
					C4804	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
ZB7501-06	VMD0504	LED HOLDER	6		C4805	ECEA1CKS100	E. CAPACITOR 16V 10U	1	
ZB7507, 08	VMX1932	LED SPACER	2		C4807	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
ZB7509-14	VMD0504	LED HOLDER	6		C4808	ECQV1H473JL		1	
ZB7515	VJF1318	FIP HOLDER	1		C4809.10		E. CAPACITOR 10V 22U	-	
						-	C. CAPACITOR CH 50V 0.1U	+	
		MISCELLANEOUS					C. CAPACITOR CH 50V 0.01U	3	
			$\vdash$		C4817			1	
	VEE0C27	CABLE	1	P7601-P750	04017	COUMTITIO 421 N	C. CAPACITOR CH 50V 0. 1U	1	<del> </del>
_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>	7007 7730	24004	444.05	5.455	-	
			-		D4801	MA165	DIODE	1	
			-		D4802	LN476YCPX	DIODE	1	
		-	$\vdash$		D4803	MA4056~H	DIODE	1	
								-	
	VEDOSEALA	FROUT (L) S.D.A	-	(94)	IC4801	NJM4565MD	IC	1	
	VEP03E91A	FRONT (L) C. B. A.	$\perp$	(RTL)	W			_	
					JK4801	VJJ0264	HEADPHONE JACK	1	
04054	EOUNT CATE	0.010101700 00 200	_		JK4802	VJJ0263	MIC JACK	1	
		C. CAPACITOR CH 50V 0.01U	-					L	
		C. CAPACITOR CH 50V 0. 1U	1		P4801	VJS3537B018G	CONNECTOR (FEMALE)	1	
		C. CAPACITOR CH 50V 0. 01U	1					Ĺ	
	ECEAOJKA470		1		Q4801	2SD602A-R	TRANSISTOR	1	
C4855	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1					Γ	
					QR4801	MUN2113	TRANSISTOR-RESISTOR	1	
IR4851	RPM6937-V11	REMOTE CONTROL RECEIVER	1					Г	
					R4801	ERJ6GEYG392	M. RESISTOR CH 1/10W 3, 9K	1	
JK4851	VEJ1734	FRONT JACK	1		R4802		M. RESISTOR CH 1/10W 2.2M	+	
					R4803		M. RESISTOR CH 1/10W 4. 7K	1	
PS4851	VJS3537B022G	CONNECTOR (FEMALE)	1		R4804		M. RESISTOR CH 1/10W 5. 8K	-	<del></del>
					R4805		M. RESISTOR CH 1/10W 1K	-	
Q4851	XN6401	TRANS I STOR	1		R4806			-	
	MSD601-R	TRANSISTOR	1					1	
	XN6401	TRANSISTOR	1				M. RESISTOR CH 1/10W 10K	2	<del>                                     </del>
	MSD601-R	TRANSISTOR	<u></u>		R4809		M. RESISTOR CH 1/10W 150K	1	
44054	m3D001-R	TRANSTSTOR	_'		R4810		M. RESISTOR CH 1/10W 150	1	
QR4851	MUN2213	TOANS ISTOR- DESIGNAD			R4811		M. RESISTOR CH 1/10W 68K	1	
GR4051	MUN2213	TRANSISTOR-RESISTOR	1		R4812		M. RESISTOR CH 1/10W 1.6K	1	
24051 50	PA ISSEVATES	W 55010505 011 1 1 1 1 1 1 1 1 1 1 1 1 1	_		R4813		M. RESISTOR CH 1/10W 470	1	
		M. RESISTOR CH 1/10W 75	3		R4814		M. RESISTOR CH 1/10W 1.2K	1	
		M. RESISTOR CH 1/10W 10K	1		R4815		M. RESISTOR CH 1/10W 100	1	
		M. RESISTOR CH 1/10W 220K	1		R4816	ERJ6RBD162	M. RESISTOR CH 1/10W -1, 6K	1	
		M. RESISTOR CH 1/10W 22K	1		R4817	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
		M. RESISTOR CH 1/10W 2.2K	1		R4818	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	
		M. RESISTOR CH 1/10W 47K	1		R4819	ERJ6RBD101	M. RESISTOR CH 1/10W 100	1	
		M. RESISTOR CH 1/10W 1.6K	1		R4820	ERJ6RBD162	M. RESISTOR CH 1/10W 1. 6K	1	
	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1		R4821	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
		M. RESISTOR CH 1/10W 47K	1		R4822		M. RESISTOR CH 1/10W 1.2K		
R4863	ERJ6GEYF393	M. RESISTOR CH 1/10W 39K	1		R4823		M. RESISTOR CH 1/10W 100	_	
		C. RESISTOR 1/4W 33	1		R4824		M. RESISTOR CH 1/10W 220	-	
R4865	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1				M. RESISTOR CH 1/10W 3.3K		
		M. RESISTOR CH 1/10W 10K	2		R4827		M. RESISTOR CH 1/10W 5. 6K	1	
		M. RESISTOR CH 1/10W 47K	1		R4828		M. RESISTOR CH 1/10W 12K	1	
		M. RESISTOR CH 1/10W 100K	1				120	-	
		M. RESISTOR CH 1/10W 2.7K	1		\$4801-06	EVQ11407K	SWITCH	6	
			$\neg$		5 7001 00		(91)	0	
S4851	EVQ11407K	SWITCH	1		VR4801	EVJYMOF15C23	V PESISTOP	-	
		SWITCH	1			EWANYJX1054J		1	
		SWITCH	1					1	
			-1		VK40U3	EVJ021F1554J	V. RESISTOR 1. 55M	_1	
W4801	VWJ0119	JUMPER	1		W4	10112	uumen.		
		VOM! ER			W1	VWJ0119	JUMPER	1	
ZB4851	VMD2247	INEDA NOI DED	-						
		INFRA HOLDER	1				VOLUME KNOB	1	
		SLIDE KNOB	1		ZB4802, 03		REC LEVEL KNOB	2	
		MIC KNOB	1				MIC KNOB	1	
ZB4854	VGF0740	VC SHEET	1		ZB4805	VMD2326	REFLECTOR	1	
					ZB4806	VGF0208	REC VR SHEET	1	
					ZB4807		REC VOL PLATE	1	
							VC SHEET	1	
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Property   March   M	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.		T	-	1
College				-	/· \				+	
Company   Comp		VEP07966A	MODULAR C. B. A.	111	(RTL)				1	
				$\vdash$					1	
PROF   VP121T   COMMETTER   BALE	1/2001		15 145517 45 4457	-					1	ļ
Main	JK /601	VJJ0587	4P MODULAR JACK	11					1	
	57004								2	
WILDIAM   WILDIAM	P7601	VJP1231T	CONNECTOR (MALE) 4P	1	· · · · · · · · · · · · · · · · · · ·				1	
WRITICRE   PARCETE				$\vdash$					1	
MARIOR   SPACER   1			MISCELLANEOUS	-					1	
Comparison   Com				-				***	+	
Comparison   Com		VMX1021	SPACER						H.	
Comparison   Com				-					1	
Company   Comp				$\vdash$					1	
				$\vdash$					1	
MEPPRESS   ROYALES C.B.A.   1 SPL				$\vdash$					1	
				$\sqcup$					1	
		VEP07965A	FRONT LED C. B. A.	110	(RTL)				1	
19750   1975-19   1975-1				$\vdash$					1	
A				<b>.</b>		C1361	VCEA1AJC470	E. CAPACITOR 10V 47U	1	
197754   MOSSIGN   1000E										
P7755   WP1244T						-			1	
### P7752   V,9533780900   COMMECTOR (PEMALE)   1	D7754	LN013010	DIODE	1		D1140	S1WBA80	DIODE	1	
P7752   V.SS53780000   DMMCTOR (FEMALE)   1				$\Box$		D1150	ERA22-02	DIODE	1	
DITEST   SS254   DIODE	P7751	VJP1244T	CONNECTOR (MALE) 4P	1		D1151	188254	DIODE	1	
DI 180   SS254   DI 100E   1	P7752	VJS3537B009G	CONNECTOR (FEMALE)	1		D1152	MA723	DIODE	1	
DI 180   18254   DI 100E   1   DI 180   DI 1805   18254   DI 100E   1   DI 180   DI 1805   DI						D1153			1	
						D1180	155254	DIODE	1	
				$\Box$					1	
■   P2701   P270788A   P. C. B. A.   1   67TL   P1724   P17				$\vdash$					1	
									Η.	
D1290   PMD129F   D100E		VEP07968A	IR C. B. A.	110	(RTL)				Η.	
D1260   FMP-24H   D100E				1					<u> </u>	
27701 02   ECKF H1902F   C. CARACITOR SOV 0.010 2     1   1   1   1   1   1   1   1   1				$\vdash$					<del>-</del>	<del>+</del>
D1341 MA4150.   D100E	C7701 02	ECKETH103ZE	C CAPACITOR 50V 0 01H	2					-	
D100E   2   D100E   2   D100E   1   D100E   D100E   1   D100E	07701,02	Loid Till Coli	0, 0A  A0110K 501 0, 010	++					-	
D1300   MASS=CL   D100E   1   D1301   MASS=CL   D100E   D10	07701 02	MA4056-H	DIODE	2						<del></del>
D1381   ISS254   D100E	07701.02	mA4000-f1	DIODE	+-					1	
P7751   VJR1044   CONNECTOR   1	1.07701	VI DOLDE	2011	<del>  , </del>					-	
P7751   VJS1231T   CONNECTOR (FEMALE)   1	LB / /01	ALFO180	COIL	┼-		D1361	155254	UTODE	1	
P7751   VJS1231T   CONNECTOR (FEMALE)   1	03301	V ID1044	COMMECTOR	+.+		A 51101	V5446464444	51105	_	<b> </b>
A   101150   STRS8705LF   1C				-		ZK F1101	XBATCIBNUTOU	FUSE	1	
A   171340	P7751	VJ512311	CONNECTOR (FEMALE)	'		A 101150	070000000		L	
M VEPO3E18A SP JACK C. B. A. 1 (RTL)				╁╼┼		AV 101120	STRS6705LF	10	1	
M VEPO3E18A SP JACK C. B. A. 1 (RTL)				+		A 101040	100000000	110	-	ļ
VEPO3E18A   5P JACK C. B. A.   1 (RTL)   L1240   VLQ0655K220   CO1L   1   1		<del> </del>		+	. ,	ZL 1P1340	UNHOUGSOUA	10	'	ļ
VEPO3E18A   5P JACK C. B. A.   1 (RTL)   L1240   VLQ0655K220   CO1L   1   1				+		A 1 1 1 2 0 0 1	VII F4 0 40 10 10 77	6011	-	<del> </del>
L1250 VL00655K220 CO1L 1  L1260 VL00655K220 CO1L 1  L1260 VL00655K220 CO1L 1  L1260 VL0065K220 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  P1280 VL01803B1 CONNECTOR (MALE) 1  R1150 ERDS2FJ221 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONNECTOR 1/4W 220 L1  R1150 ERDS2FJ331 CONN		VEDOSETOA	ED IACK C D A	١,,	(DTL)				-	
L1280   VL00855R220   COIL     1		VEFOSETOA	OF UNON C. B. A.	<del>  '  '</del>	(RIL)				-	
UJ0567										
P3781	140701	V 1 10507	11.01	1		L1260	VLQ0655K220	COIL	1	ļ
P3781 VJP1244T CONNECTOR (MALE) 4P 1	JN3 /81	VJJU367	JACK							
M P1101	20704	11 151 514	CALUITATED (III. E)	1		LB1210-14	VLP0056	BEADS CORE	5	
P1290    VJP1393T	P3 /81	VJP12441	CONNECTOR (MALE) 4P	1-11		A				
Color   Col				$\vdash$					-	<del> </del>
VEPO7867A   DV JACK C. B. A.   1   (RTL)   (RTL)   (PTL)				-		P1290	VJP1393T	CONNECTOR (MALE) 13P	1	
VEPO7867A   DV JACK C. B. A.   1   (RTL)   (RTL)   (PTL)				++						
■ VEP07867A DV JACK C. B. A. 1 (RTL)		ļ		$\vdash$		-			-	
Q1201   2SD1891-R   TRANSISTOR   1   Q1340   2SD1273P   TRANSISTOR   1   Q1340   2SD1273P   TRANSISTOR   1   Q1350   2SD1896-R   TRANSISTOR   1   Q1360   2SD				+					-	<del></del>
Q1340   ZSD1273P   TRANSISTOR   1   Q1350   ZSD1896-R   TRANSISTOR   1   Q1350   ZSD1896-R   TRANSISTOR   1   Q1360   Z		VEP07967A	DV JACK C. B. A.	1	(RTL)				1	
JK7651 VJJ0568   DV JACK   1   Q1350   ZSD1996-R   TRANSISTOR   1   Q1360   ZSD1996-R TRANSISTOR   1   Q1360   ZSD1996-		ļ		$\vdash$					1	
Q1360   ZSD1996-R   TRANSISTOR   1				$\sqcup$		-	2SD1273P	TRANSISTOR	1	
P7651 VJP1246T CONNECTOR (MALE) 6P 1  R1150 ERDS2FJ224 C. RESISTOR 1/4W 220K 1  R1151 ERDS2FJ882 C. RESISTOR 1/4W 6. 8K 1  R1152 ERDS2FJ882 C. RESISTOR 1/4W 15K 1  R1153 ERDS2FJ270 C. RESISTOR 1/4W 15K 1  R1154 ERDS2FJ185 C. RESISTOR 1/4W 27 1  R1155 ERXISJR88 M. RESISTOR 1/4W 1.5 I  R1155 ERXISJR88 M. RESISTOR 1/4W 560 I  R1156 ERDS2FJ31 C. RESISTOR 1/4W 560 I  R1157 ERDS2FJ31 C. RESISTOR 1/4W 330 I  R1157 ERDS2FJ31 C. RESISTOR 1/4W 330 I  R1158 ERDS2FJ22 C. CAPACITOR 100V 0.033U 2  R1158 ERDS2FJ22 C. RESISTOR 1/4W 330 I  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 I  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 I  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 I  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 I	JK7651	VJJ0568	DV JACK	1		Q1350	2SD1996-R	TRANSISTOR	1	
R1150   ERDS2FJ224   C. RESISTOR   1/4W   220K   1						Q1360	2SD1996-R	TRANSISTOR	1	
R1151 ERDS2FJ882 C. RESISTOR 1/4W 6. 8K 1 R1152 ERDS2FJ153 C. RESISTOR 1/4W 15K 1 R1153 ERDS2FJ270 C. RESISTOR 1/4W 27 1 R1154 ERDS2FJ175 C. RESISTOR 1/4W 1. 5 1 R1155 ERXISJR68 M. RESISTOR 1/4W 1. 5 1 R1155 ERXISJR68 M. RESISTOR 1/4W 3.0 1 R1156 ERDS2FJ313 C. RESISTOR 1/4W 3.0 1 R1157 ERDS2FJ313 C. RESISTOR 1/4W 300 1 R1158 ERDS2FJ313 C. RESISTOR 1/4W 300 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 320 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 330 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 330 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 330 1	P7651	VJP1246T	CONNECTOR (MALE) 6P	1						
R1152 ERDS2FJ153 C. RESISTOR 1/4W 15K 1 R1153 ERDS2FJ270 C. RESISTOR 1/4W 27 1 R1154 ERDS2FJ185 C. RESISTOR 1/4W 1.5 1 R1155 ERXISJR68 M. RESISTOR 1/4W 1.5 1 R1156 ERDS2FJ185 C. RESISTOR 1/4W 1.5 1 R1156 ERDS2FJ313 C. RESISTOR 1/4W 30 1 R1157 ERDS2FJ313 C. RESISTOR 1/4W 30 1 R1158 ERDS2FJ313 C. RESISTOR 1/4W 30 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 30 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 30 1 R1159 ERDS2FJ313 C. RESISTOR 1/4W 30 1 R1159 ERDS2FJ31 C. RESISTOR 1/4W 30 1 R1159 ERDS2FJ31 C. RESISTOR 1/4W 30 1			Advanced Market			R1150	ERDS2FJ224	C. RESISTOR 1/4W 220K	1	
R1153 ERDS2FJ270 C. RESISTOR 1/4W 27 1  R1154 ERDS2FJ1R5 C. RESISTOR 1/4W 1.5 1  R1155 ERXISJR88 M. RESISTOR 1W 0.68 1  R1156 ERDS2FJ561 C. RESISTOR 1/4W 560 1  R1157 ERDS2FJ361 C. RESISTOR 1/4W 330 1  AC1120,21 ECQU2A333MN P. CAPACITOR 100V 0.033U 2  R1158 ERDS2FJ272 C. RESISTOR 1/4W 220 1  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1  R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1						R1151	ERDS2FJ682	C. RESISTOR 1/4W 6.8K	1	
R1154   ERDS2FJ1R5   C. RESISTOR   1/4W   1.5   1						R1152	ERDS2FJ153	C. RESISTOR 1/4W 15K	1	
■ VEP01839A       POWER C. B. A.       1 (RTL)       R1155       ERXISJR68       M. RESISTOR       1W 0. 68 1         R1156       ERDS2FJ561       C. RESISTOR       1/4W 560 1         R1157       ERDS2FJ331       C. RESISTOR       1/4W 330 1         R1158       ERDS2FJ231       C. RESISTOR       1/4W 220 1         R1158       ERDS2FJ221       C. RESISTOR       1/4W 220 1         R1159       ERDS2FJ331       C. RESISTOR       1/4W 330 1         R1159       ERDS2FJ231       C. RESISTOR       1/4W 330 1         R1160       ERDS2FJ277       C. RESISTOR       1/4W 2. 7 1				$\sqcup$		R1153	ERDS2FJ270	C. RESISTOR 1/4W 27	1	
R1156 ER0S2FJ561 C. RESISTOR 1/4W 560 1 R1157 ERDS2FJ331 C. RESISTOR 1/4W 330 1 R1158 ERDS2FJ221 C. RESISTOR 1/4W 220 1 R1158 ERDS2FJ221 C. RESISTOR 1/4W 220 1 R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1 R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1 R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1 R1160 ERDS2FJ277 C. RESISTOR 1/4W 2.7 1						R1154	ERDS2FJ1R5	C. RESISTOR 1/4W 1.5	1	
R1157   ERDS2FJ331   C. RESISTOR   1/4W   330   1     \( \Lambda \) C1120,21   ECQU2A333MN   P. CAPACITOR   100V   0.033U   2   R1158   ERDS2FJ221   C. RESISTOR   1/4W   220   1     \( \Lambda \) C1123   VCK0286E222   C. CAPACITOR   2200P   1   R1159   ERDS2FJ331   C. RESISTOR   1/4W   330   1     \( \Lambda \) C1124,25   VCK0286E102   C. CAPACITOR   1000P   2   R1160   ERDS2FJ277   C. RESISTOR   1/4W   2.7   1		VEP01839A	POWER C. B. A.	1	(RTL)	R1155	ERX1SJR68	M. RESISTOR 1W 0.68	1	
⚠ C1120,21       ECQU2A333MN       P. CAPACITOR       100V 0.033U       2       R1158       ERDS2FJ221       C. RESISTOR       1/4W       220       1         ⚠ C1123       VCK0286E222       C. CAPACITOR       2200P       1       R1159       ERDS2FJ331       C. RESISTOR       1/4W       330       1         ⚠ C1124, 25       VCK0286E102       C. CAPACITOR       1000P       2       R1160       ERDS2FJ277       C. RESISTOR       1/4W       2.7       1						R1156	ERDS2FJ561	C. RESISTOR 1/4W 580	1	
⚠ C1120,21       ECQU2A333MN       P. CAPACITOR       100V 0.033U       2       R1158       ERDS2FJ221       C. RESISTOR       1/4W       220       1         ⚠ C1123       VCK0286E222       C. CAPACITOR       2200P       1       R1159       ERDS2FJ331       C. RESISTOR       1/4W       330       1         ⚠ C1124, 25       VCK0286E102       C. CAPACITOR       1000P       2       R1160       ERDS2FJ277       C. RESISTOR       1/4W       2.7       1						R1157	ERDS2FJ331		1	
↑ C1123 VCK0286E222 C. CAPACITOR 2200P 1 R1159 ERDS2FJ331 C. RESISTOR 1/4W 330 1 R1160 ERDS2FJ2R7 C. RESISTOR 1/4W 2. 7 1	<b>∆</b> C1120,21	ECQU2A333MN	P. CAPACITOR 100V 0. 033U	2		R1158			1	
↑ C1124.25 VCK0286E102 C. CAPACITOR 1000P 2 R1160 ERDS2FJ2R7 C. RESISTOR 1/4W 2.7 1	<b>∆</b> C1123	VCK0286E222	C. CAPACITOR 2200P	1		-			1	
	₾ C1124,25	VCK0286E102	C. CAPACITOR 1000P	2					-	<del></del>
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				1-1					-	<del> </del>
				• •			<u> </u>	L		

R1185 ERDS2FJ473 C. RESISTOR 1/4W 47K 1 R1188 ERDS2FJ883 C. RESISTOR 1/4W 89K 1 R1188 ERDS2FJ883 C. RESISTOR 1/4W 82K 1 R1202 EROS2CK8201 M. RESISTOR 1/4W 82K 2 R1202 EROS2CK8202 M. RESISTOR 1/4W 15 K 1 R1203 EROS2TJ153 C. RESISTOR 1/4W 15 K 1 R1204 ERDS2TJ153 C. RESISTOR 1/4W 15 K 1 R1206 ERDS2TJ153 C. RESISTOR 1/4W 1.8 K 1 R1206 ERDS2TJ1271 C. RESISTOR 1/4W 27 K 1 R1207 ERDS2TJ128 C. RESISTOR 1/4W 82 M 1 R1208 ERDS2TJ271 C. RESISTOR 1/4W 82 M 1 R1309 ERDS2TJ271 C. RESISTOR 1/4W 82 M 1 R1301 ERDS2TJ271 C. RESISTOR 1/4W 82 M 1 R1301 ERDS2TJ281 C. RESISTOR 1/4W 82					1		Т		1	_
State	Ref. No.			-		Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
BROOK   BROO				1					Γ	
RECORD   RECORD COUNTY   RESISTED   1/46   27%   1						SW1	ESD10606	SLIDE SWITCH		
MISCAL   M				2					Г	
RESOURCE   RESOURCE   CRESTING   1/48   1.05   1			M. RESISTOR 1/4W 27K	1		VR1	EVQWM2001	ENCODER		
BROOM   BROOM   CREATING   1/48   100   1		ERDS2TJ153	C. RESISTOR 1/4W 15K	1					Г	
BROOK   DESCRIPTION   CARRETING   1/49   200	R1204	ERDS2TJ562	C. RESISTOR 1/4W 5.6K	1		X1	CSB990J	OSCILLATOR	1	
MINISTAND   MORPH   MARTINGE   C. M. 1900   1	R1205	ERDS2TJ182	C. RESISTOR 1/4W 1.8K	1						
BIRDAY	R1206	ERDS2TJ271	C. RESISTOR 1/4W 270	1				WISCELLANEOUS	-	
RISSID     ROSETIAND     CARESTOR   144   820   1	R1340	ERDS1TJ392	C. RESISTOR 1/2W 3.9K	1			1		1	
BRIDE   BRID	R1351			-			IID57TDB27	(-) RATTEDY TERMINAL	۲,	
1,105				-					-	
11.150   V.10006   TRANSAC MARCE   1			3.11.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	H					-	
March   Marc	A T1150	VI T0936	TRANSFORMER	1					-	
March   Marc		12.0000	Trover ormet	<u> </u>					-	
MINISTER   MONTH   SORRE	741101	WEEDE	INDEX AND E	-					-	
March   Marc				-			-		-	1
2				-			UR57JP638A	JUMPER WIRE (12PIN)	1	
24.106   MOREY   MOREY   MOREY				-						
MINISTRA   MANIBER   MANIBER				2						
March   Marc				1						
March   Marc	ZA1108	XWC4BFX	WASHER	1						
ZB1101 VQ.7021 FUSE		VEE9289	POWER EARTH	1					Г	
	ZA1110	VSC3941	HEAT SINK	1						
				Г						
	<b>∆</b> ZB1101	VQL7021	FUSE	1					-	
CI CERADAKIOI C. CAPACITOR 8. 3Y 100U 1 1				Ė					$\vdash$	
CI CERADAKIOI C. CAPACITOR 8. 3Y 100U 1 1									-	<del> </del>
CI CERADAKIOI C. CAPACITOR 8. 3Y 100U 1 1						<b> </b>			$\vdash$	
CI CERADAKIOI C. CAPACITOR 8. 3Y 100U 1 1				$\vdash$		l———			-	<del> </del>
CI CERADAKIOI C. CAPACITOR 8. 3Y 100U 1 1									-	
CI CERADAKIOI C. CAPACITOR 8. 3Y 100U 1 1		UR57VPR822	EDITING CONTROL C P A	-	(PTL)					<u> </u>
C2 ELASCRESSEZ ADMAINTOR	-	UND / TE BUZS	EDITING DUNINUL G. B. A.	Η'	(RIL)				L	
C2 ELASCRESSEZ ADMAINTOR				-					L	
C2 ELASCRESSEZ ADMAINTOR				_						
Committed Captary   Captar C				-						
S. SE   EQMINITIONER   CLARACITOR CH 50V   0.01   2				1					Г	
C1.08										
COLD				2						
C12   13   EQUINITIONERN   C. OAPACITOR ON SOV   1000P   2	C7, C8	ECUX1H101KCN	C. CAPACITOR CH 50V 100P	2					Т	
C12, 13   EQUINITIORAND   C. CAPACITOR CN 50V 1000P   2	C10	ECUM1E104ZFN	C. CAPACITOR CH 16V 0. 1U	1						1
C15	011	ECUX1H221KCG	C. CAPACITOR CH 50V 220P	1					-	
C15   C15	012, 13	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	2						
D1.02	C14	EZJS2VB223Z	CAPACITOR	1					$\vdash$	
DATE   DATE	C15	ECUM1E104ZFN	C. CAPACITOR CH 16V 0. 1U	1					_	
DATE   DATE				_					-	<del>                                     </del>
DATE   DATE	D1, D2	1SS294	DIODE	2					_	
DB	D4-D6			_						
Column   C				-					_	
IC2				i i						
IC2	101	M34510M4194T	IC	1		-			_	
LED1, D2   SE1003E						<u> </u>				
LED3	102	KIISYLZOAA	10							
LED3	LEDI DO	SE LOCAT	150	_					_	
01				-		<b></b>				
Q2	LEU3	L1201 CALU	LED	1						
Q2	-									
Q3										
Q4. 05       MSD801-R       TRANSISTOR       2         R1, R2       ERJ8GEYJ1R8       M. RESISTOR CH 1/8W 1.8 2       C         R3, R4       ERJ8GEYJ471       M. RESISTOR CH 1/10W 470 2       C         R5       ERJ8GEYJ471       M. RESISTOR CH 1/10W 47 1       C         R6       ERJ8GEYG104       M. RESISTOR CH 1/10W 100K 7       C         R8-14       ERJ8GEYG104       M. RESISTOR CH 1/10W 100K 7       C         R15       ERJ8GEYG104       M. RESISTOR CH 1/10W 100K 7       C         R19.20       ERJ8GEYG104       M. RESISTOR CH 1/10W 100K 2       C         R22       ERJ8GEYG104       M. RESISTOR CH 1/10W 100K 2       C         R22       ERJ8GEYG104       M. RESISTOR CH 1/10W 4.7K 2       C         R23. 24       ERJ8GEYG104       M. RESISTOR CH 1/10W 4.7K 3       C         R25       ERJ8GEYG104       M. RESISTOR CH 1/10W 4.7K 3       C         R26-28       ERJ8GEYG104       M. RESISTOR CH 1/10W 4.7K 3       C         R31-32       ERJ8GEYG103       M. RESISTOR CH 1/10W 2.70 2       C         R33-36       ERJ8GEYG103       M. RESISTOR CH 1/10W 3.8K 4       C         R37       ERJ8GEYG103       M. RESISTOR CH 1/10W 4.7K 1       C				1						
R1. R2			TRANSISTOR	1						
R3. R4	Q4, Q5	MSD801-R	TRANSISTOR	2						
R3. R4									_	
R3. R4	R1, R2	ERJ8GEYJ1R8	M. RESISTOR CH 1/8W 1.8	2					-	
R5										
R6				-						
R8-14										
R15										
R19.20 ERJ6GEYG104 M. RESISTOR CH 1/10W 100K 2  R22 ERJ6GEYG470 M. RESISTOR CH 1/10W 4.7 K 2  R23. 24 ERJ6GEYG104 M. RESISTOR CH 1/10W 100K 1  R25. ERJ6GEYG104 M. RESISTOR CH 1/10W 100K 1  R26-28 ERJ6GEYF472 M. RESISTOR CH 1/10W 100K 1  R29 ERJ6GEYG104 M. RESISTOR CH 1/10W 100K 1  R31. 32 ERJ6GEYG104 M. RESISTOR CH 1/10W 270 2  R33-36 ERJ6GEYG104 M. RESISTOR CH 1/10W 8. 6K 4  R37 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1  R38 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1  R39 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1  R30 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1  R31 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1				$\rightarrow$						
R22				$\rightarrow$						
R23, 24				$\rightarrow$					_	
R25				$\rightarrow$						
R26-28 ERJ8GEYF472 M. RESISTOR CH 1/10W 4. 7K 3  R29 ERJ8GEYG104 M. RESISTOR CH 1/10W 100K 1  R31.32 ERJ8GEYG271 M. RESISTOR CH 1/10W 270 2  R33-36 ERJ8GEYG822 M. RESISTOR CH 1/10W 6. 8K 4  R37 ERJ8GEYG103 M. RESISTOR CH 1/10W 10K 1  R38 ERJ8GEYF472 M. RESISTOR CH 1/10W 4. 7K 1										
R29				$\rightarrow$						
R31.32 ERJ8GEY9271 M. RESISTOR CH 1/10W 270 2 R33-36 ERJ8GEYG882 M. RESISTOR CH 1/10W 8. 8K 4 R37 ERJ8GEYG103 M. RESISTOR CH 1/10W 10K 1 R38 ERJ8GEYF472 M. RESISTOR CH 1/10W 4. 7K 1				-						
R33-36 ERJ6GEYG682 M. RESISTOR CH 1/10W 6. 8K 4 R37 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1 R38 ERJ6GEYF472 M. RESISTOR CH 1/10W 4. 7K 1				1						
R37				2					_	
R38 ERJ6GEYF472 M. RESISTOR CH 1/10W 4. 7K 1	R33-36	ERJ6GEYG682	M. RESISTOR CH 1/10W 8.8K	4					-	
R38 ERJ6GEYF472 M. RESISTOR CH 1/10W 4. 7K 1	R37	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1					-	
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## **SERVICING FIXTURES & TOOLS**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	VFK1409	MEASURING BOARD	1			<del> </del>			
	VFK1410	CONNECTION BOARD	1						
	VFK1317	30PIN FLAT CABLE	1	NEEDS 2 CABLES					
	VFK1405	AUDIO EXTENDER BOARD	1					-	
	VFK1406	DIGITAL EXTENDER BOARD	1						
	VFK1407	Y/C EXTENDER BOARD	1						
	VFK1408	MOTOR EXTENDER BOARD	1						
	VJA0941	DC CABLE	-	FOR MEASURING BOARD					
	VFK1436	14PIN EXTENDER CABLE	1						
	VFK1448	12PIN EXTENDER CABLE	1						
		26PIN FLAT CABLE	1						
	VFK1446	32 FLAT CABLE	1						
	VFK0849	20PIN FLAT CABLE	1						
	·	EVR SOFTWARE	1						
		ALIGNMENT TAPE (COLOR BAR)	1						
	VFK1348A	NEUTRAL PLATE	1						
	VFK1450	POST HEIGHT FIXTURE	1						
	VFK1151 VFK1149	BOX DRIVER	1						
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	VFK1188 VFK1217	DIAL TENSION GAUGE 49% SENSOR CASSETTE	1						
	VFK1426	6% SENSOR CASSETTE	1						
		NEUTRAL POSITION TOOL	_	REV/WHITE				L.,	
		NEUTRAL POSITION TOOL	-	PLAY/BLACK				Н	
	VFK1208	NEUTRAL POSITION TOOL	-	NEUTRAL/BLACK W/HOLE				$\vdash$	
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